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OPERATIONS MAINTENANCE PLAN 2011-2012

Prepared for:

LEVIN RICHMOND TERMINAL **402 WRIGHT AVENUE** RICHMOND, CALIFORNIA

Prepared By:

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Updated: February 21, 2013

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Levin Richmond Terminal Corporation

402 Wright Avenue Richmond, CA 94804

Facility WDID No: 2 071002394

February 21, 2013

2/21/2013 Date:

I, Gary Levin, certify that Environmental Technical Services (ETS) is an authorized representative of the Levin Richmond Terminal Corporation (LRTC), and performs oversight of the Stormwater Program including reporting. I certify under penalty of law that this document, "Operations and Maintenance Plan 2011-2012" and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my Inquiry of the person or persons who manage the system, or the persons directly responsible for gathering the information, the information submitted is to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of line and imprisonment for known violations.

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Levin Richmond Terminal Corp.

Attorney at Law

LRT OMP RPT 2011-2012.doc

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CERTIFICATION STATEMENT

"I certify under penalty of law that this document, the Levin Richmond Terminal Operations and Maintenance Plan 2011-2012, and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

I have reviewed the report and as an authorized representative of the Levin Richmond Terminal Corporation "I declare that under perjury the information and/or recommendations contained in the attached report is true and correct to the best of my knowledge."

Helen Mawhinney

Environmental Technical Services

Sr. Environmental Specialist

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1.0 INTRODUCTION

This document is prepared for submittal to the United States Environmental Protection Agency (U.S. EPA), Hazardous Waste Management Division. Levin-Richmond Terminal Corporation (LRTC), in compliance with the State of California General Stormwater Permit for Discharges of Storm Water Associated with Industrial Activities (General Permit), has performed activities that are included in its Stormwater Monitoring Plan (SWMP). The SWMP also provides the basis for the evaluation of compliance with the General Permit and Stormwater Pollution Prevention Plan (SWPPP). The combination of the SWMP and the SWPPP comprise the stormwater monitoring and pollution prevention plans for the entire 40-acre site and the facilities owned and operated by LRTC.

As required by the U.S. EPA Consent Decree, dated April 22, 1996 and the completed Upland Cap Installation, Former United Heckathorn Facility, Richmond, California, the Operations and Maintenance Plan (O & M Plan) describes the procedures for the long-term management of the upland capping system at the 4.5-acre Heckathorn NPL Site. The results of inspections, monitoring, and maintenance of the cap and drainage system are documented within this Annual Report. The upland remedy implemented by LRTC and Levin Enterprises Inc. was approved on September 30, 1999. There were no activities to report for the period ending June 2001 and LRTC began annual reporting for its fiscal year commencing July 1, 2001 through June 30, 2002. Submittal of Annual Reports is made for the reporting periods ending June 30 of each year. All referenced reports and documents are available at LRTC and are available to the U.S. EPA and its contractors upon request.

This document presents the June 2012 summary of recent inspection and maintenance by LRTC of the cap and associated stormwater interceptors.

1.1 Background

Environmental Technical Services (ETS) prepared and caused to be filed, on behalf of LRTC, the <u>2011-2012 Annual Report for Stormwater Discharges Associated with Industrial Activities</u>, for the period ending June 2012. During the 2011 – 2012 reporting period no significant changes have been made to the Heckathorn NPL Site, including but not limited to material processes, capping, interceptors, and site construction. Site observations, monitoring, and "Good Housekeeping Practices" are performed on a regular basis.

1.2 Current Site Use

LRTC operates a dry bulk marine terminal, encompassing approximately twenty-two acres of land. LRTC accepts bulk cargo from vessels, railcars, and trucks. Some of the bulk cargo, such as iron ore, coal, and petroleum coke, is stockpiled onsite and then loaded into vessels, railcars, and trucks. Other materials are unloaded from vessels to

rail cars and trucks. Steel scrap is loaded directly from dump trucks to vessels and is not stored onsite.

The United Heckathorn Facility was formerly located in the northern portion of the terminal property (Attachment A, pages 2 of 6 and 3 of 6) which is currently used for both the temporary storage of dry bulk materials (petroleum coke and iron ore); non-polluting equipment; and materials used in daily operations of the terminal (i.e., ramps, barricades, containers, jack walls, and k-rails). As described above, the entire northern portion is capped except for rail beds, landscaped areas, and the rock slopes to the Lauritzen Canal.

2.0 CAP AND STORMWATER INTERCEPTORS

2.1 Description of Capping System

Concrete Cap

The concrete cap is located in the upland area of the former United Heckathorn Facility. The concrete cap consists of a minimum of six inches of concrete aggregates with reinforcing steel wire. The reinforcing steel consists of a double layer of 6' by 6' W4.5" X W4.5" steel-welded wire fabric (WWF). In some areas the cap overlies asphalt. In other areas where asphalt does not exist, the concrete cap consist of a double layer of 4' X 4' W4.5" X W4.5" WWF overlaying a compacted base. In these areas the subgrade was prepared and compacted according to the specification approved by the U.S. EPA.

Geotextile Fabric and Gravel Cover

Some areas of the upland cap adjacent to railroad tracks and switches, where the storage and handling of bulk materials does not occur, were covered with a geotextile fabric and gravel. These areas consist of soils potentially containing pesticides. The geotextile membrane and six-inches of clean imported gravel cover these soils.

Stormwater Collection within Interceptors SW-3 through SW-7

The cap contains a stormwater collection system with five large interceptors (retention basins) engineered and constructed according to the specification approved by the U.S. EPA. The interceptors are identified as SW-3 through SW-7.

2.2 Inspection of Cap

The concrete cap was inspected by John Peterson for Buster Building, General Contractor, License No. 513203 C8 (concrete) on May 24, 2012 and found to be intact and in good condition. Also, the cap was inspected quarterly by Environmental Technical Services (ETS) while performing stormwater and "Good Housekeeping" observations. The cap was found to be uncompromised with only occasional surface

"feather" cracks typical of those which develop subsequent to the curing of freshly poured concrete. The cracks are insignificant and not indicative of stress fractures. These surface cracks are too small to repair. Refer to Attachment B for the Buster Building, Report of Cap Inspection, May 24, 2012.

2.3 Inspection of Drop Inlets and Interceptors

LRTC's staff and Environmental Technical Services (ETS) perform site observations. ETS has been retained to perform random and monthly site inspections and to advise LRTC as to effective pollution prevention improvements. A pollution absorbent/prevention materials expert and vendor performs site inspections during the wet season to evaluate the condition and placement of absorbent snakes, socks, pads, and fabrics.

Visual observations of stormwater runoff and stormwater systems are performed on an as-needed basis during and after: shipping activities; periods of significant rainfall; and during dry and wet seasons. Work areas and surface conditions are inspected on a daily basis and the site is cleaned using LRTC's power vacuum and sweepers as part of LRTC's routine housekeeping. Site surfaces are kept clean to ensure that sediment and contaminants do not enter nearby surface waters.

LRTC's Stormwater Pollution Prevention Plan includes the inspection and documentation of drop inlet and interceptor conditions each quarter, each dry season, and annually. Monthly inspections are required during the wet season. LRTC and ETS have elected to document all inspection results on a monthly basis. The results are included in the Annual Report for Stormwater Discharges Associated with Industrial Activities.

3.0 STORMWATER FROM INTERCEPTORS SW-3 THROUGH SW-7

A storm drain system was installed in 1998 to collect drainage from the northern portion of the main terminal parcel as part of the final remedy for the United Heckathorn Superfund site. Twenty-seven catch basins collect stormwater and direct it into one of five interceptors (SW-3 through SW-7). Stormwater interceptors SW-3 through SW-7 were constructed with compartments and steel baffles to allow the settling of sediments onto the chamber floor and separation of oil/grease and floatables, thereby decreasing the outflow of sediments, oil and grease into the Lauritzen Channel.

Interceptors SW-3 through SW-7 were constructed with a capacity to hold runoff generated during stormwater events. Water held in the interceptors allows most sediment to drop out prior to discharge. In light rainfall the interceptors contain all collected water. These systems are visually monitored, sampled, drained, emptied of all sediment, and pressure-washed as necessary to significantly reduce outflow into the Lauritzen Channel and ensure capacity in anticipation of the next storm event. Should heavy rainfall occur generating discharge, a stormwater outflow sample is collected.

A concrete below-ground pit at the South Parr Canal parcel is used for drying materials removed from stormwater interceptors during cleanout. Most material is returned to the material stockpiles with small quantities sampled and disposed of according to regulations. Stormwater is returned to material stockpiles or tested and disposed of in the City of Richmond's sanitary sewer system according to LRTC's Industrial Stormwater, Wastewater Discharge Permit.

In addition to sampling consistent with the General Permit, LRTC conducts additional sampling of the stormwater outflow to comply with EPA requirements for the Heckathorn site. This additional sampling data is reported in the OMP for submittal to the EPA, but is not included as part of the SWPPP.

Stormwater pollution prevention materials are used, as needed, within and around catch basins and interceptors SW-3 through SW-7.

Interceptor SW-7 has a shutoff valve and discharge into the Lauritzen Canal eliminated.

4.0 BETTER BUSINESS PRACTICES / GOOD HOUSEKEEPING

Levin Richmond Terminal Corporation continues to work closely with Environmental Technical Services to improve and upgrade each site process that could adversely impact the environment. Improvements include, but are not limited to, the following:

LRTC continually reviews its operations in order to improve "Best Management Practices" and stormwater pollution prevention measures.

Primary pollution prevention measures include the sweeping of the facility during business hours using vacuum power and manual sweeping as necessary; the regular replacement of stormwater pollution prevention materials such as wattles; DrainGuard® Catch Basin Inserts; absorbent snakes; pillows, diapers, and Extech® fabric at each catch basin and interceptor; the use of additional absorbent pads within each interceptor during rainfall; routine site inspections; returning migrated sediment to adjacent stockpiles, spraying collected stormwater onto stockpiles for dust control; site sealing of stormwater system's inlets during the dry season; the continual upgrade of stormwater systems, and training in pollution prevention.

4.1 Significant Materials

LRTC's activities currently include the handling and storage of dry bulk materials, including: iron ore; steel scrap; coal; aggregates, and petroleum coke. The dry bulk cargo is either directly loaded into vessels or stockpiled onsite and loaded onto vessels, or unloaded from vessels to rail cars and trucks. The stockpiles are bermed, using tenfoot high concrete or steel jackwalls or stacked empty shipping containers. These serve the dual purpose of acting as a wind barrier and preventing material migration. Subsequent to jackwall placement, fork pockets, used for their repositioning, are sealed with gaskets. Dry bulk material stockpiles such as iron ore, coal and green coke are

sealed using Soil-Sement or Haul Road as needed. Calcined coke is stored in the Bulk Materials Storage Warehouse or outside covered with plastic tarps and secured with heavy bags. Uncovered storage of stockpiles is permitted by the Bay Area Air Quality Management District.

Chemical Significant Materials are related to the maintenance, repair, and fueling of vehicles and materials handling equipment. Refer to Table II for Significant Materials Locations and Quantities. Chemicals are stored in enclosed covered areas and transported in spill-resistant containers, using double containment tubs, drip pans, and pollution prevention materials as needed to eliminate drips, spills, and leaks. Refer to Table III for Significant Materials - Best Management Practices (BMPs).

4.2 California Standard for Non-Road Engines, Emissions Reduction

In 2008, LRTC implemented a policy that all vehicles and equipment purchased will be compliant with Federal Standards (Tier 3 or better) for Non-road Engines.

4.3 Dust and Particulate Generating Activities

Dust and particulates can be generated during the loading and unloading of stockpiled dry bulk materials. All of the stockpiles are misted with water as needed to decrease airborne particulates. Stormwater within the interceptors is sometimes sprayed onto material stockpiles and roadways for dust control. Stockpiles may also be covered with tarps or sealed using Soil-Sement or Haul Road. LRTC is replacing and/or renovating older conveyors with covered conveyor systems.

4.4 Pollution Prevention Materials

Stormwater pollution prevention materials are placed, as needed, within SW-3 through SW-7 catch basins and interceptors to reduce the quantities of suspended sediment and oily runoff from entering the bay. These include: Straw bales/wattles; DrainGuard Inserts; Absorbent snakes; Pillows; Diapers; UltraGuard Socks; and Extech Fabric, Drain inlets are sealed using straw bales/wattles, absorbent fabric. Each absorbent type is closely monitored and replaced as needed.

As part of LRTC's continuous improvement of BMPs, the selection, use and placement of absorbent materials is continuously evaluated and improved for maximum effectiveness.

Emergency spill response stations have been placed strategically at areas where potential contaminants are used or stored. Cleanup materials are located near each work area. Ample supplies of absorbent booms are stored at LRTC.

Exposed soil and ties beneath locomotive "parking stations" have been covered with "Trackmat," a fabric barrier, prescribed and provided by American Textiles. This material is scheduled for routine replacement.

The pollution prevention materials used are as follows;

- Straw bales/wattles placed around drain entry where traffic allows.
- Oil absorbent socks placed inside and outside of straw bales and drain entry as needed.
- Absorbent diapers placed within storm drains where impact by petroleum hydrocarbons is possible.
- DrainGuard catch basin insert funnel placed at drain entry with an absorbent pillow inside where possible.
- UltraGuard socks attached to each drain outflow pipe where possible. The socks are constructed using a sediment proof fabric to capture suspended solids. Captured solids are removed as needed.
- Trackmats Hydrocarbon absorbent trackmats placed in areas of railroad locomotive parking.
- Geotextile filter fabric bags filled with gravel placed to surround pollution prevention
 materials on and around the drain inlets as needed. They are easily removed for
 cleaning and assist in filtering out sediment before stormwater enters the other
 pollution prevention materials.

The monitoring and upgrading of stormwater systems is ongoing. The monitoring of stormwater systems includes the inspection of the cap, drain inlets, interceptors, stormwater lines, sample collection, and the review of analytical results. The upgrading of systems includes, but is not limited to: the improvement of primary stormwater interceptors and secondary sediment basins; sealing drain inlets during work activities; adding new pollution prevention materials; building concrete berms to control stormwater runoff; placing UltraGuard Socks on stormwater outflows; installing gate valves on stormwater outflows; constructing sampling and maintenance platforms; shotcreteing areas of exposed soil; cleaning stormwater lines and drain inlets; and increasing the schedule of emptying and cleaning the stormwater interceptors.

4.5 Interceptor Improvements

SW-3 through SW-7

These interceptors are scheduled to be emptied and cleaned several times throughout the year as part of LRTC's SWPPP. Also, the interceptors are emptied on an-asneeded-basis to minimize stormwater discharge into the bay. Should rainfall generate discharge stormwater samples are collected from the discharging systems.

Composite water samples were collected from interceptors SW-3 through SW-7 for the purpose of emptying and cleaning each interceptor. Laboratory analytical results were presented to the City of Richmond Waste Water Division, Pretreatment Program, and the interceptor's collected stormwater was emptied into the city's sanitary sewer under LRTC's City Industrial Discharge Permit or recycled back onto the stockpiles by spraying.

All basins and the primary interceptors associated with stormwater systems SW-3 through SW-7 were emptied and cleaned multiple times during the 2011–2012 reporting year.

SW-7 interceptor had a one-way tidal valve allowing stormwater within the interceptor to outflow, while preventing the Lauritzen Channel's surface water from inflowing during high tide. The backflow valve was removed in January 2010 and replaced with a manual shutoff valve. The valve is always in the off position.

Absorbents were routinely replaced within each system's inlet(s). Pollution prevention materials remained in place throughout the year.

4.6 General Maintenance and Stormwater Improvements

LRTC various stormwater pollution prevention and site improvements include: increased draining and cleaning of stormwater interceptors; construction of a stormwater system with concrete vaults containing oil water separators and median filtration systems and/or stormwater pollution prevention materials; regular inspection of stormwater systems; cleaning of storm drain inlets and associated lines; capturing runoff from stockpiled bulk materials for recycling back onto the piles by spraying; constructing a box to contain pollution prevention materials in the a stormwater outflow pipe; placing shutoff valves on outflow pipes; and continued training.

4.7 Training

LRTC is committed to maintaining a high level of staff competence and readiness as it relates to stormwater pollution prevention and monitoring. To support this goal, LRTC conducts periodic training of personnel such as: regular operations meetings, tail gate meetings, in-field training, and training provided by outside sources that are designed and delivered by environmental management subject matter experts.

Employee training includes, but is not limited to, the following:

OSHA Hazardous Materials Standard Recognizing Hazardous Materials Hazardous Materials Basics, Terms, and Definitions Hazardous Communications (HMIS, NFPA, MSDS's, DOT and ERG)

Decontamination Toxicology, PPE

Confined Space Entry

Department Of Transportation Exercises

Spill Control, Containment, and Clean-Up

Emergency Procedures, And ICS

Spill Response Training includes, but is not limited to, the following:

Site Safety

Initial Response and Assessment Actions

Boom Design and Strategy

Maritime Security Concerns

Oil Spill Simulations

Skimmer Design and Strategy

Alternate Response Options

Oiled Wildlife Cautions

Shoreline Clean-Up Assessments (SCAT)

Decontamination

Spill Impacts and Cost Concerns

Survey of Response Equipment Staging Area

Initial Response Strategies

Site Protection Strategy Deployment

ETS conducted an onsite pollution prevention course in June and September 2012. Pollution prevention training included but was not limited to the following:

NPDES Permit

Industrial Discharge Permit

Notice of Intent

Regulations, Regulatory Oversight and Compliance

LRTC Potential Primary Pollutants

Illicit Discharge Detection and Elimination

Site Runoff

Best Management Practices (BMPs)

Chemical Storage, Transfer, Use,

Equipment, Machinery, and Vehicles (BMPs)

Pollution Prevention Materials

Dust Control, Bulk Stockpiled Material

Storm Drain Systems

Yard Sweepings

Spill Response (Leaks, Drips, Spills)

Observations Form/Visual Assessment

Qualifying Storm Event

Laboratory Certified Clean Bottles

Sample Collection

Quality Assurance/Quality Control (QA/QC) Sample Labeling Chain of Custody Sample Storage and Transfer

ETS trained LRTC stormwater-team members, from both the day and night shift, in the standard operating procedures for stormwater sample collection.

Elements of the pollution prevention, sampling procedures, and spill response courses are included in periodic tailgate meetings.

4.8 Marine Spill Emergency Response

LRTC has a written contract with NRC Environmental, an emergency response contractor, to immediately respond to an LRTC marine spill, should one occur. NRC Environmental provides 24-hour emergency response on both land and water. This contract includes providing emergency response vessels, personnel, absorbent consumables, and Coast Guard-approved oil containment booms.

The Coast Guard Marine Safety Office (MSO) requires each visiting cargo vessel to have an existing emergency response contract with an Oil Spill Response Organization (OSRO) prior to the Coast Guard allowing entry into US Ports.

4.9 Inspections

Regular inspections of all working stockpiles, mobile equipment, and conveying equipment are conducted by LRTC's supervisors and employees for containment and cleanliness to eliminate the buildup of material on jack walls, k-rail, equipment, roadways, and surfaces.

LRTC staff and/or Environmental Technical Services (ETS) perform site observations. ETS has been retained to perform site inspections randomly and to advise LRTC as to effective pollution prevention improvements.

5.0 STORMWATER SYSTEMS, CLEANING EVENTS

A composite sample was collected from interceptors SW-1 through SW-7 on October 5 and November 29, 2011, and on January 25, 2012. A composite sample was collected from SW-2 through SW-7 on November 2, 2011 and March 29, 2012. A composite sample was collected from SW-1 and SW-3 on April 5, 2012.

Plans for the annual cleaning of five stormwater interceptors were developed by LRTC's personnel with Environmental Technical Services in June 2003. Storm drain cleaning was increased to several times throughout the year beginning in June 2005 and remains an active part of LRTC's SWPPP. The interceptors are emptied on an-asneeded-basis to minimize stormwater discharge to the Bay. A stormwater discharge

permit was obtained from the City of Richmond's Waste Water Treatment Program to empty interceptor water into the sanitary sewer.

Prior to interceptor cleanout laboratory analytical results were presented to the City of Richmond Waste Water Division, Pretreatment Program, to determine whether the water removed from the stormwater interceptors could be discharged into the sanitary sewer. The City of Richmond inspected the storm drains and sanitary sewer, and discharge was approved under LRTC's Industrial Discharge Permit. The Waste Water Division was notified 48-hours prior to each project start to allow for city inspection.

LRTC's personnel emptied and cleaned the interceptors under a site-specific Health and Safety Plan. LRTC pumped water from the interceptors utilizing a specially equipped water truck. Water was discharged from the water truck directly into the sanitary sewer. Sediment was removed from the interceptors using stormwater to liquefy the sediment, which was then pumped into the vacuum trailer or water truck and recycled back onto the stockpiles from which it was generated. Subsequent to emptying, each interceptor's floor and sidewalls were pressure-washed. This process was repeated until all sediment had been removed and the cleaning of each interceptor complete.

6.0 STORMWATER SYSTEMS, SAMPLE COLLECTION AND ANALYSES

6.1 Sample Collection

Stormwater samples are collected using a groundwater monitoring pump (GMP) to collect samples within the stormwater interceptors or by placing sample containers below the outflow pipe during discharge.

Three discrete, 40-ml, Volatile Organics Analysis bottles were filled from each interceptor to be composited by a State certified analytical laboratory as one sample for analysis. Stormwater samples for all other analyses were composited during field sampling. This was accomplished by collecting equal amounts of water from each interceptor within a laboratory supplied clean 2.5 gallon Teflon container. Upon completion this water was then decanted into sample bottles. Certified clean, properly preserved bottles were supplied by a state certified analytical laboratory.

Each sample bottle was labeled with LRTC as the project name, stormwater system identification number, sampler's name, date, time and preservative. The samples were placed within a cooler on ice, and transported to a certified laboratory, under chain of custody, within the sample's holding time.

6.2 Analyses

The following stormwater samples included systems SW-3; SW-4; SW-5; SW-6; or SW-7:

Data	Description	Analyses
Date	Description	Performed
10/5/2011	Composite Sample SW-1 through SW-7	1
11/29/2011	Composite Sample SW-1 through SW-7	1
1/25/2012	Composite Sample SW1 – SW-7	1
	Composite Sample SW-2, SW-4, SW-5,	1
3/29/2012	SW-6, SW-7	
4/5/2012	Composite Sample SW-1 and SW-3	1
	SW-1, SW-2, SW-3, SW-4, SW-5, SW-6	2
1/20/2012	SO PARR SW-11, NO PARR SW-12	
2/7/2012	SW-2, SW-4, SW-5, SW-6	2
	SW-1, SW-2, SW-3, SW-4, SW-5, SW-6	2
3/14/2012	SO PARR SW-11, NO PARR SW-12	
3/14/2012	SW-7	3
10/27/2012	SW-7 INFLOW	3
1/25/2012	SW-1 THROUGH SW-7 COMPOSITE	3

- <u>Discharge:</u> Samples were analyzed for oil and grease (O&G, using EPA Method 1664); benzene, toluene, ethylbenzene, total xylenes, (BTEX, using EPA Method 8021); Specific Conductivity (SC, using EPA Method SM2510B); pH (using EPA Method SM4500H+B); copper, lead, nickel, and zinc (Cu, Pb, Ni, Zn, using EPA Method 200.8) total suspended solids (TSS, using Standard Method E160.2 or SM2540D); and/or biological oxygen demand (BOD, using Standard Method SM5210B).
- 2. <u>Annual:</u> Samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg, using EPA Method 5030/8260; benzene, toluene, ethylbenzene, total xylenes, methyl tert-butyl ether (BTEX, MtBE, using EPA Method 8260); total petroleum hydrocarbons as diesel (TPHd, using EPA Method (3510/8015); total petroleum hydrocarbons (motor oil, using EPA Method 3510/8015); oil and grease (O&G, using EPA Method 1664); Specific Conductivity (using EPA Method 120.1); chemical oxygen demand (using SM5220D); pesticides (using EPA Method 3510/8081); pH (using Standard Method SM18-4500 or Hydac Meter); total suspended solids (TSS, using Standard Method SM18-2540D); aluminum, copper, lead, iron, vanadium, and/or zinc (using Method 6010B; 200.7; 200.8).
- 3. Other: Samples were analyzed for pesticides (using EPA Method 3510/8081 or 608); total dissolved solids (TDS, using Standard Method SM2540S); Specific Conductivity

(using Standard Method 2510B); Alkali Metals, using EPA Method 300.1 and 200.7; total petroleum hydrocarbons as gasoline (TPHg, using EPA Method 5030/8260; benzene, toluene, ethylbenzene, total xylenes, methyl tert-butyl ether; copper, lead, vanadium and zinc (Cu, Pb, Vn, Zn, using EPA Method 200.8) (BTEX, MtBE, using EPA Method 8260); total organic compounds (TOC, using EPA Method E415.3; chemical oxygen demand (COD, using Standard Method 5220D); total extractable petroleum hydrocarbons (TEPH, using EPA Method SW8015); and/or total suspended solids (TSS, using Standard Method SM18-2540D);

Discharge Samples

A composite sample was collected from non-discharging interceptors SW-1 through SW-7 and analyzed for the purpose of emptying and cleaning out the stormwater systems then discharging captured water into the municipal sanitary sewer on: October 5, 2011; November 29, 2011; and January 25, 2012.

A composite sample was collected from non-discharging interceptors SW-2; SW-4, SW-5, SW-6, SW-7 and analyzed for the purpose of emptying and cleaning out the stormwater systems then discharging captured water into the municipal sanitary sewer on March 29, 2012.

A composite sample was collected from non-discharging interceptors SW-1 and SW-3 and analyzed for the purpose of emptying and cleaning out the stormwater systems then discharging captured water into the municipal sanitary sewer on April 5, 2012.

Analytical results are summarized in Attachment C, Tables of Analytical Results.

7.0 SUMMARY

NRC Environmental Services was retained by LRTC to clean all drain inlets and lines associated with stormwater systems SW-3 through SW-7. Cleaning was performed on October 4, 5, and 19, 2011, and accomplished using a hot pressure washer. Captured wastewater was transferred into a water truck and carried to LRTC's drying bed where it was allowed to evaporate. Collected sludge was placed in DOT 55-gallon drums, sampled, analyzed; then transferred to qualified landfills.

NRC encountered concrete debris within the SW-7 stormwater line during the cleanout of drain inlet 7DI-17. Darrah's Trucking, a General Contractor, removed the concrete under a Health and Safety Plan by inserting a threaded bolt into the concrete, attaching a tow line to the bolt and using a backhoe to pull the concrete out. Rotorooter was retained on October 13, 2011 to perform a camera inspection of the line. They confirmed the concrete was removed and the integrity of the line intact.

A shutoff valve was placed on the outflow of SW-7 in July 2011. On October 27, 2011 while performing site inspections ETS noted water flowing into the SW-7 interceptor through the outflow pipe. The shutoff valve was in the closed position. Interceptor SW-7

was constructed with three tiered chambers divided by baffles. A sample was collected of water flowing into the interceptor and designated as #SW-7-Inflow and of water in the last chamber, designated as #SW-7-Baffle in an attempt to determine the source of water.

All pesticides were non-detect within the SW-7-Inflow sample with the exception of p, p-DDT @ 0.085 ppb, Dieldrin @ 0.15 ppb, and Endrin @ 0.093 ppb. All pesticides were non-detect within SW-7 Baffle with the exception of Dieldrin detected at 0.044 ppb and Endosulfan Sulfate at 0.068 ppb. There is no history of the presence or detection of Endosulfan Sulfate onsite, therefore it was determined to be an anomaly. To eliminate water flow into the interceptor a plug was placed in the SW-7 outflow pipe. The shutoff valve remained closed and discharge eliminated.

On January 20, 2012 discrete samples were collected within stormwater systems SW-3 through SW-6 and analyzed for pesticides. All pesticides were non-detect within these samples.

On February 7, 2012 discrete samples were collected within stormwater systems SW-4 through SW-6 and analyzed for pesticides. All pesticides were non-detect within these samples.

On March 14, 2012 a sample was collected within stormwater system SW-6. All pesticides were non-detect within this sample with the exception of p,p'-DDE @ 0.012 ppb and p,p'-DDT at 0.012 ppb. A sample was also collected with SW-7 and all pesticides were non-detect within this sample.

On May 9, 2012 a sample was collected within stormwater interceptor SW-6 and all pesticides were non-detect within this sample with the exception of p,p'-DDD @ 0.021 ppb, and p,p'-DDE at 0.037 ppb, p,p'-DDT at 0.044 ppb and Dieldrin at 0.013 ppb. A sample was also collected within SW-7 and all pesticides were non-detect within this sample with the exception of p,p'-DDD @ 0.066 ppb, and p,p'-DDE at 0.11 ppb, p,p'-DDT at 0.091.

Subsequent to the detection of pesticides within SW-6 and SW-7 the interceptors and associated lines were closely examined. SW-7 outflow pipe was examined by opening the shutoff valve at low tide and examining the pipe interior using a light and camera. A crack was observed in the outflow pipe and determined to be the source of impact by pesticides. ETS contacted 15 contractors attempting to find a method to repair the line in place using a material that would not impact the environment. A contract was signed with Veolia Environmental to repair the line in May 2012. After multiple attempts to get on Veolia's schedule Veolia cancelled the contract on July 12, 2012 stating that they "were in the process of restructuring for the West Coast Division and at this time they were no longer able to provide the services quoted". Subsequently, LRTC repaired the pipe by placing a clean 8" diameter PVC pipe inside the cracked existing pipe and sealing the annular space for the length of the discharge pipe with concrete. The pipe is now in good condition and no longer leaks. An additional slide valve was installed

inside SW-7, at the inflow to the new PVC to further isolate SW-7 from potential bay water intrusion.

During the inspection of the stormwater systems ETS noted a crack in the SW-6 interceptor at the seam where the below ground interceptor wall meets the above-ground interceptor walls. The interceptor was emptied and cleaned and the crack repaired by ETS on October 21, 2011, using Simpson StrongTie® Anchor System Set-XP, meeting NSF/ANSI Standard 61and environmentally safe epoxy based anchoring adhesive to repair the crack. The repair was successful.

Subsequent to the repair of stormwater systems SW-6 and SW-7, each interceptor was emptied and cleaned as needed to eliminate discharge into surface waters. Plans were developed to place gate valves, sampling platforms, and UltraGuard socks on the outflow of stormwater systems SW-3 through SW-7. As of the date of this OMP gate valves were installed on SW-3 through SW-7.

The cap was inspected by a concrete contractor and reported to be in good condition. The stormwater lines associated with SW-3 through SW-7 are scheduled to be cleaned and inspected prior to entering the 2012-2013 wet season. The integrity of the stormwater systems will also be examined. ETS will continue to monitor the systems for pesticides and PCBs throughout the 2012-2013 annual reporting year.

The finding and results submitted in this document satisfy the requirements of the Operations and Maintenance Plan, as stipulated by the U.S. EPA Consent Decree for the completed Upland Cap Installation for the Former United Heckathorn Facility, Richmond, California.

Prepared by:	
Helen A. Mawhinney	Date:
ENVIRONMENTAL TECHINCAL SERVICES Senior Environmental Specialist	

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Prepared by:

Helen/A. Mawhinney

ENVIRONMENTAL TECHINCAL SERVICES

Senior Environmental Specialist

Table I, LRTC Stormwater Pollution Prevention and Response Team Personnel:

Personnel	Title/Position	SWPP Responsibility		
Helen Mawhinney	Environmental Technical Services (ETS) Owner/Senior Environmental Specialist	Develop Stormwater Pollution Prevention Plan, Monitoring Plan, and Annual Report; supervise stormwater pollution prevention; perform random third party site inspections; direct stormwater supervisors in implementation of BMPs; conduct stormwater pollution prevention training, including sample collecting; perform stormwater sampling; monitor SWPPP materials placement; develop new BMPs, assist in implementation of current BMPs; and sample and profile yard sweepings		
Patrick O'Driscoll	Operations Superintendent	Support stormwater pollution prevention activities and personnel. Reports to CEO.		
Tony Lester	Levin Richmond Terminal) Operations Supervisor	Supervise stormwater pollution prevention; perform site inspections; direct employees in implementation of BMPs; perform tailgate meetings/briefings; conduct interim training; perform stormwater sampling; monitor SWPPP materials condition, inventory, placement; develop new BMPs, implement current BMPs; supervise maintenance of SWPPP equipment (sweepers, vacuums), implement and supervise cleanout of stormwater systems		
Jim Alexander James Parks James Sanchez Mitch Moreno Eduardo Ortiz Luke Hissom W. Norman Louis Williams Carlos Cidhernandez A. Moreno J. Solorzano Javier Gonzales	Levin Richmond Terminal Operating Engineers	Clean and maintain SWPPP-designated storage room, sweep and clean site, clean oily equipment, maintain equipment, place oil pans/absorbents under equipment, replace SWPPP materials, clean stormwater systems		

Table II - Significant Materials Locations And Quantities

SIGNIFICANT MATERIAL		LOCATION	ANNUAL QUANTITY	
			2011 metric tonnage	
Green Coke		Main Yard	41,560.0	
Calcined Coke		Main Yard/Storage Bldg. South Parr/Tarps	215,129.0	
Flexi-Coke		South Parr Yard-Transloaded pneumatically from sealed tanker trucks into enclosed railcars using backhouses installed on tanker trucks by others	36,334.0	
Steel Scrap		Main Yard loaded from trucks to ships, not stored onsite	405,974.0	
Iron Ore (new material 2011)		Main Yard	729,327.69	
SIGNIFICANT MATERIAL		LOCATION	ANNUAL QUANTITY	AVERAGE DAILY AMOUNT
		Maintenance Shop	2,400 gal	200 gals
Waste Oil		"A" Berth Awning		
Gasoline		Main Yard, Fuel Station		250 gals
Diesel Fuel		Main Yard, Fuel Station		5,000 gals
Diesel Fuel		Railroad Maintenance		1,500 gals
	150/68	"A" Berth Awning		338 gals
	150/68	"A" Berth Awning		220 gals
	150/68	Maintenance Shop		220 gals
Lubricating Oil	Coast 400	Rail Maintenance		40 gals
	Coast 400	Maintenance Shop		150 gals
	SAE 30	Rail Maintenance		40 gals
Hydraulic Fluid		A Berth Awning		(7) 5 gals
EGME ZEP FORM 40		Rail Maintenance		30 gals
Acetylene		Fabrication Shop		1,140 cu ft
Propane		Fabrication Shop		50 cu ft
EGDG Antifreeze		Fabrication Shop		110 gals

Table III - Significant Materials Best Management Practices (BMPs)

Significant Materials	Structural BMPs	Treatment BMPs	
Green Coke	Bermed with jackwalls Area drains to interceptor	Misted with water, sprayed with Soil- Sement and Haul Road, Street sweeping	
Calcined Coke	Bermed with jackwalls Area drains to interceptor	Tarped or stored in building Street sweeping	
Flexicoke	Contained in trucks and railcars	Pneumatically pumped in a sealed system with bag houses	
Coal	Bermed with jackwalls Area drains to interceptor	Mist with water, sprayed with Soil- Sement and Haul Road Street sweeping	
Steel Scrap	Direct transfer	Direct transfer from trucks to vessels using contained steel skiffs Street sweeping Mist with water	
Iron Ore	Bermed with jackwalls Area drains to interceptor	Mist with water, sprayed with Soil- Sement or Haul Road Street sweeping	
	Significant Materials		
Waste Oil	Maintenance Shop, within building "A" Berth Awning, covered, bermed, and a closed system containing drain inlet and collection vault	Spill proof containers, drip pans, absorbents	
Gasoline	Double contained aboveground fuel station	Absorbents	
Diesel Fuel	Double contained aboveground fuel station	Absorbents	
Lubricating Oil	"A" Berth Awning - covered and bermed and a closed system containing drain inlet and collection vault Maintenance Shop - covered and bermed. Maintenance Lube Shop, covered, bermed Rail Maintenance - covered and bermed	Spill proof containers, drip pans, absorbents	

Table III - continued			
Dry Bulk Stockpiled Materials	Structural BMPs	Treatment BMPs	
Petroleum Based Oil/Hydraulic Fluid	"A" Berth Awning, covered, bermed and a closed system containing drain inlet and collection vault	Spill proof containers, drip pans, absorbents	
Light Aliphatic Naptha	"A" Berth Awning, covered, bermed and a closed system containing drain inlet and collection vault Rail Maintenance, covered, bermed	Spill proof containers, drip pans, absorbents	
Lubricating Grease	"A" Berth Awning, covered, bermed and a closed system containing drain inlet and collection vault Maintenance Lube Shop, within building	Spill proof containers, drip pans, absorbents	
Ethylene Glycol	Maintenance Shop, within building "A" Berth Awning, covered, bermed and a closed system containing drain inlet and collection vault	Spill proof containers, drip pans, absorbents	

ACRONYMS

FRA Federal Railroad Administration

B Benzene
T Toluene
E Ethylbenzene

X Xylenes

COD Chemical Oxygen Demand
TOC Total Organic Carbon

TPH Total Petroleum Hydrocarbons

g Gasoline mo Motor Oil

TSS Total Suspended Solids

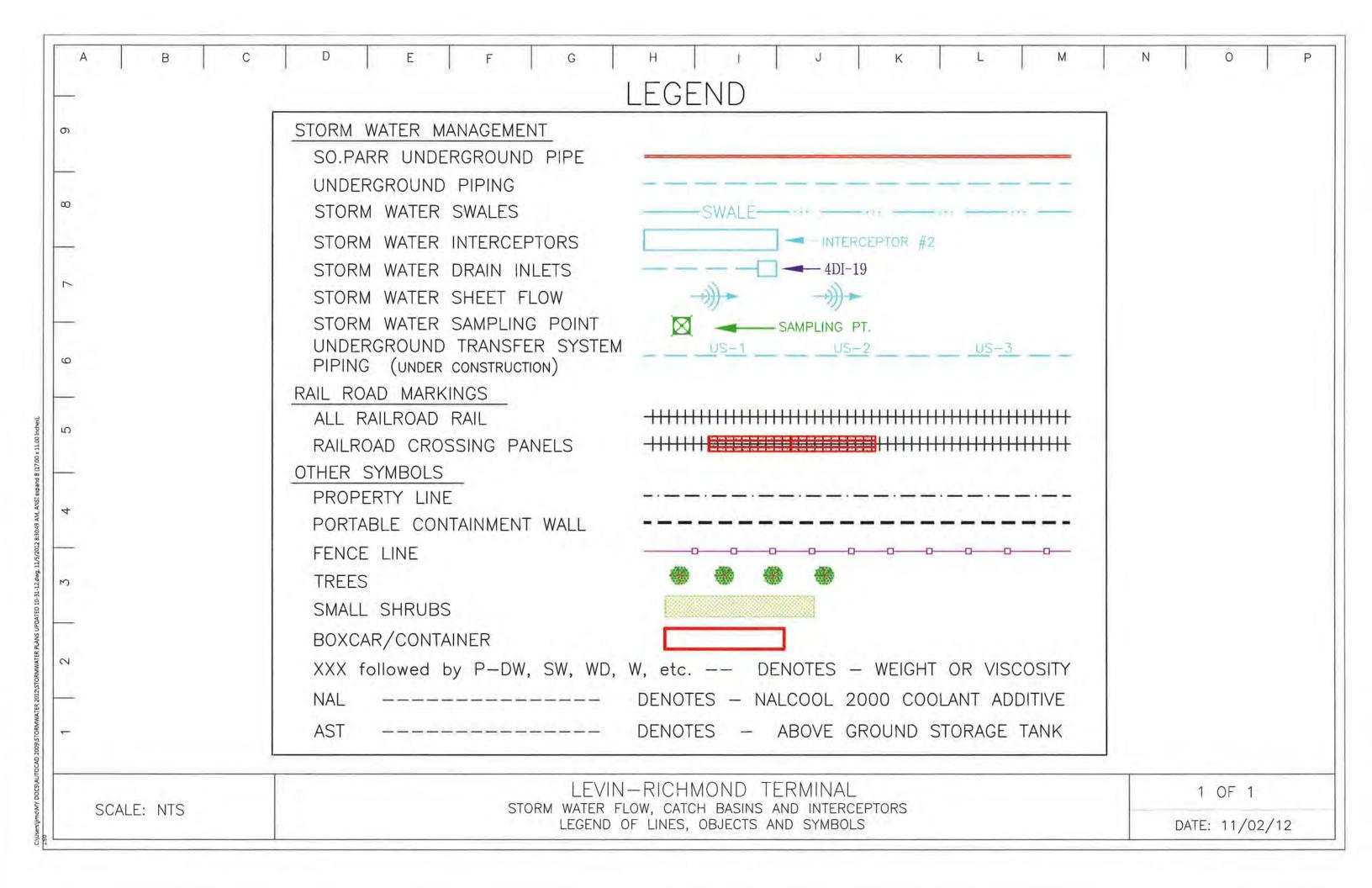
AL Aluminum
CU Copper
FE Iron
PB Lead

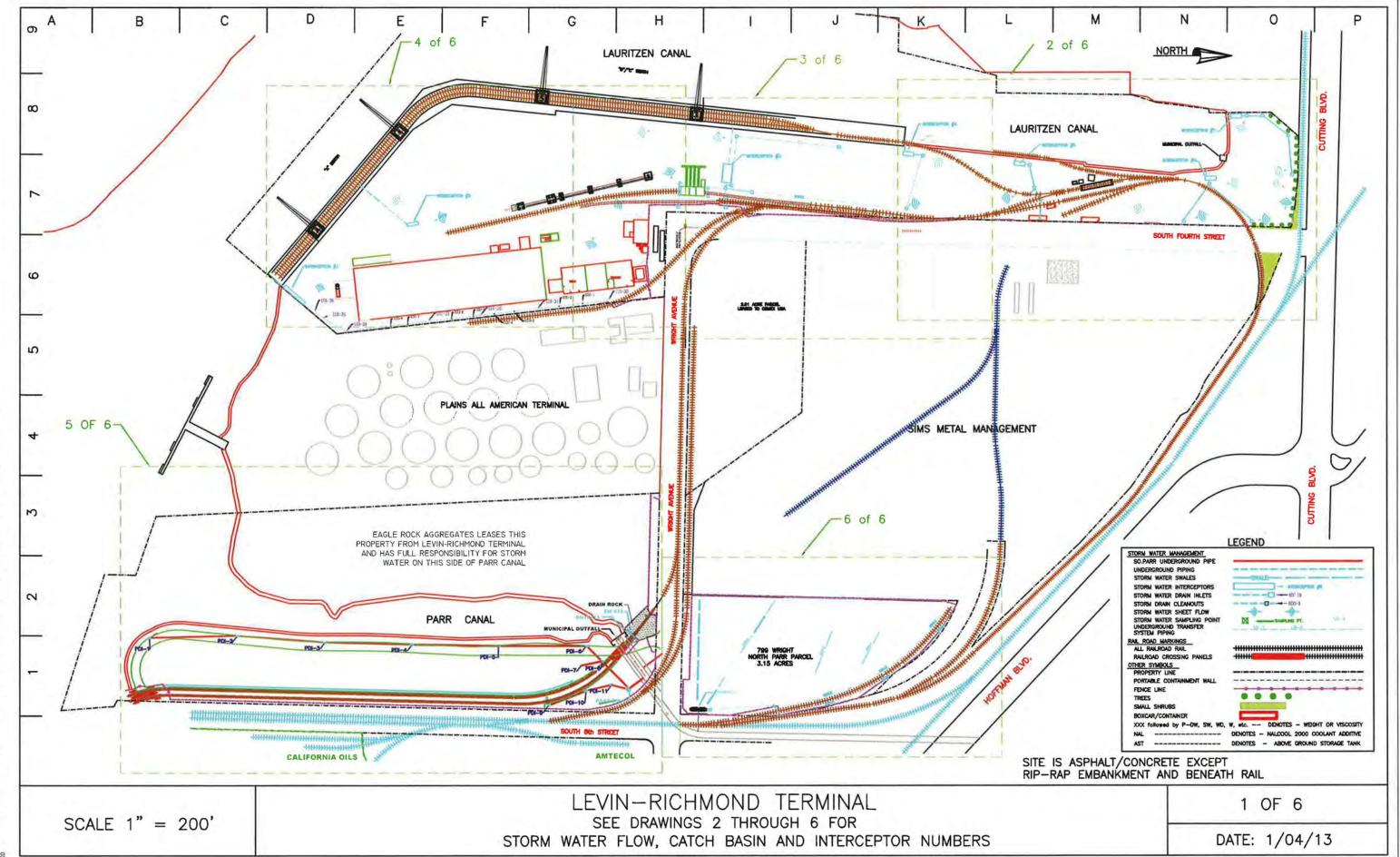
VN Vanadium

ZN Zinc

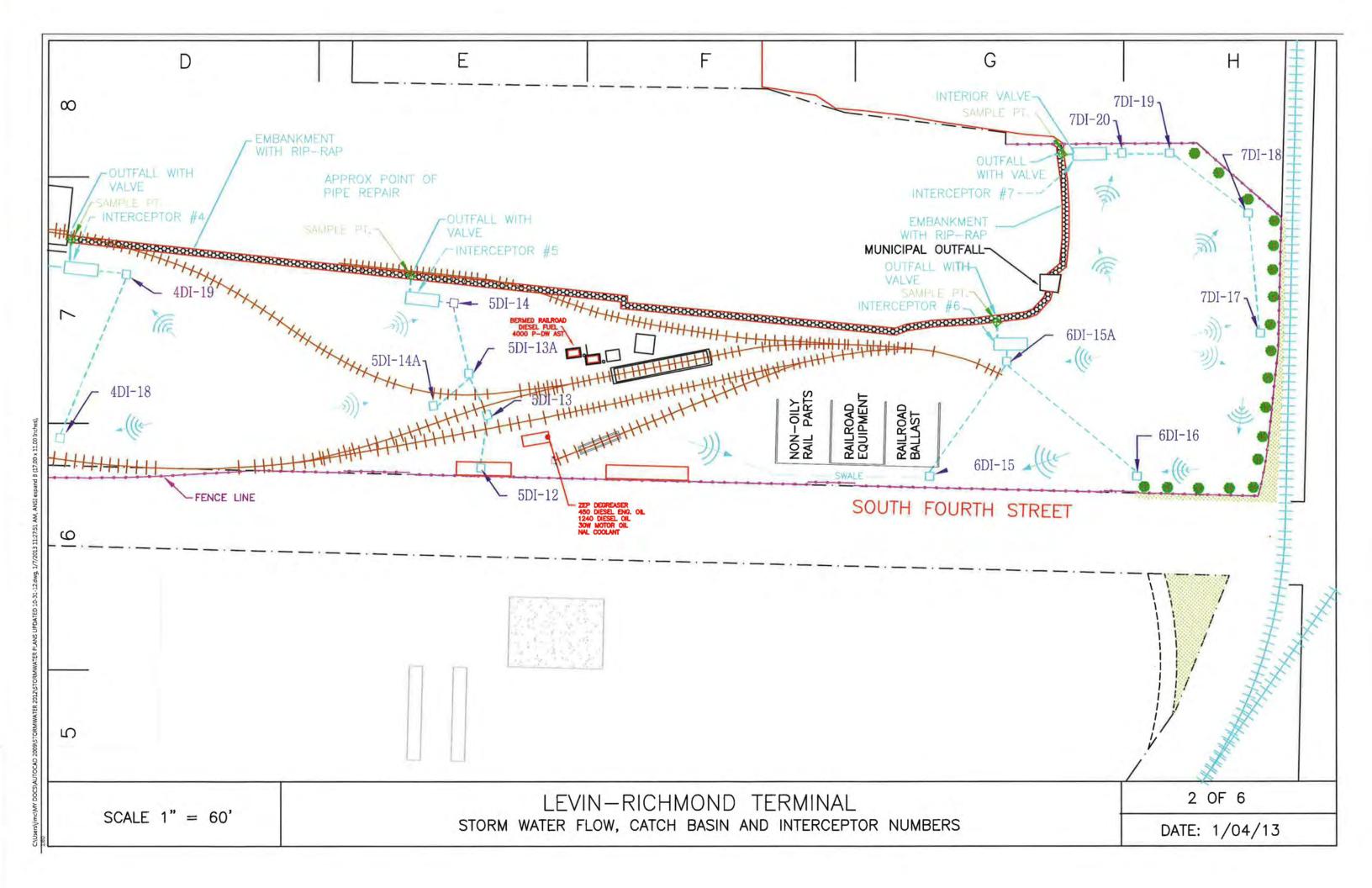
Attachment A

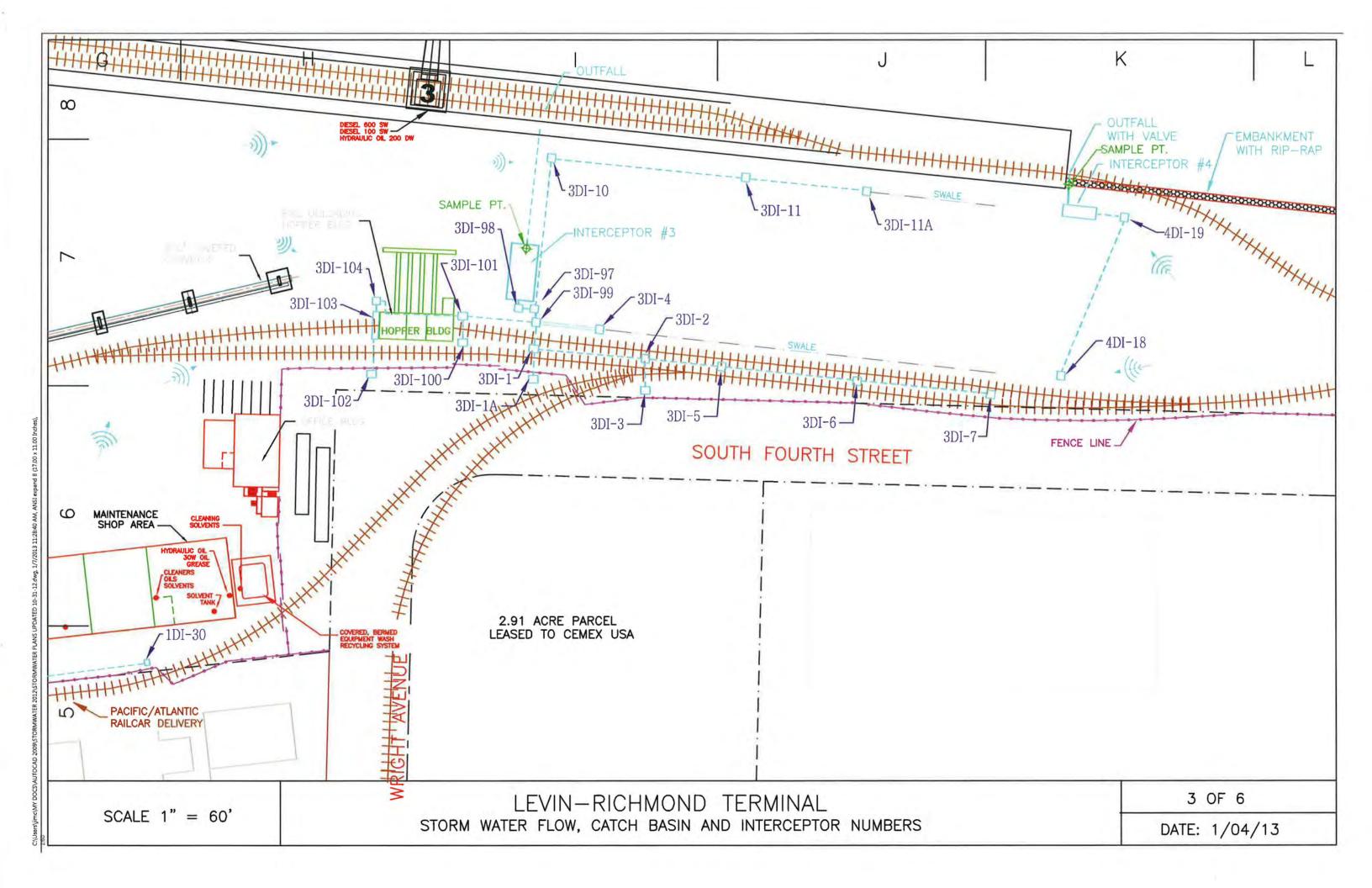
Maps

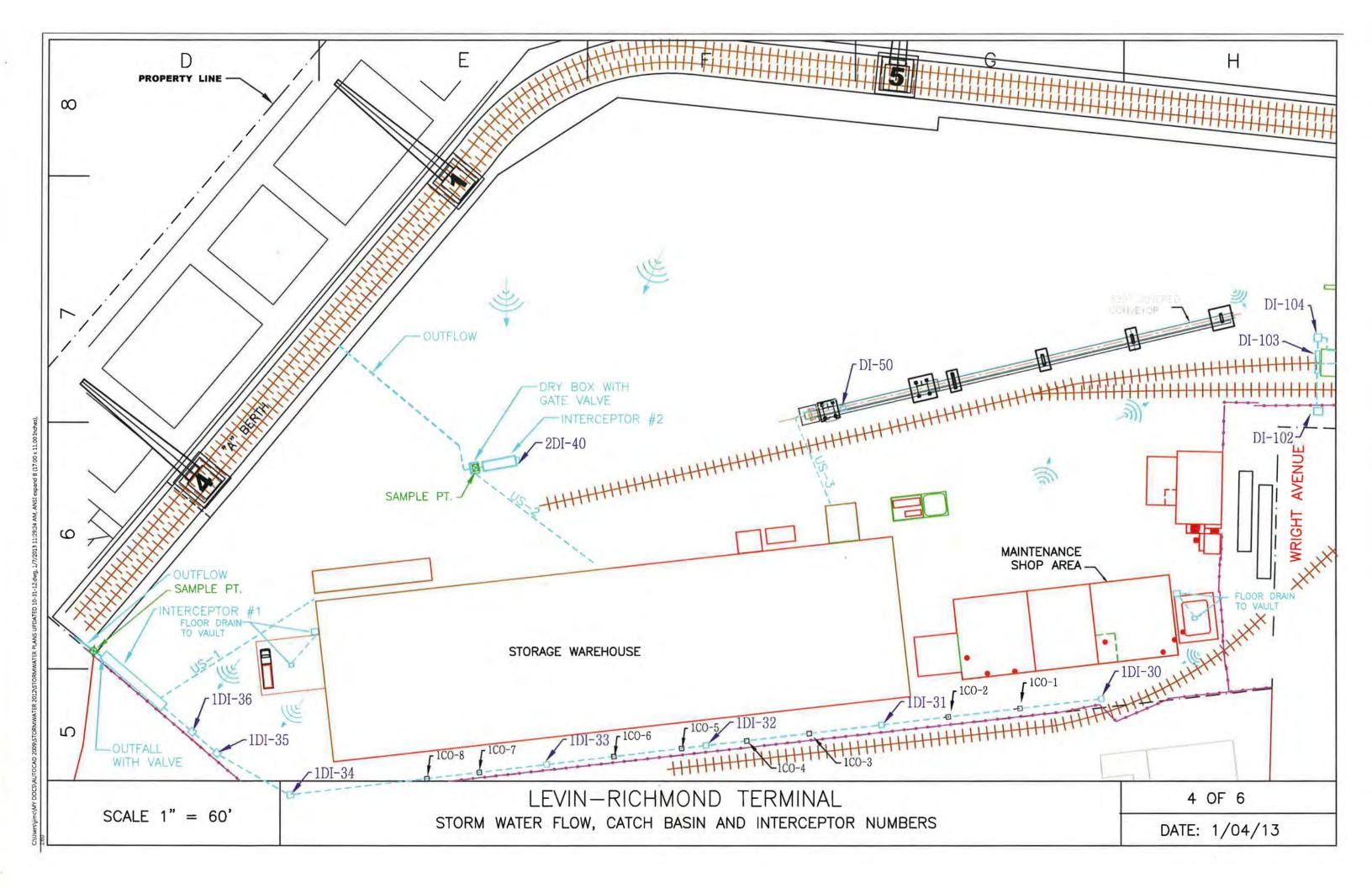


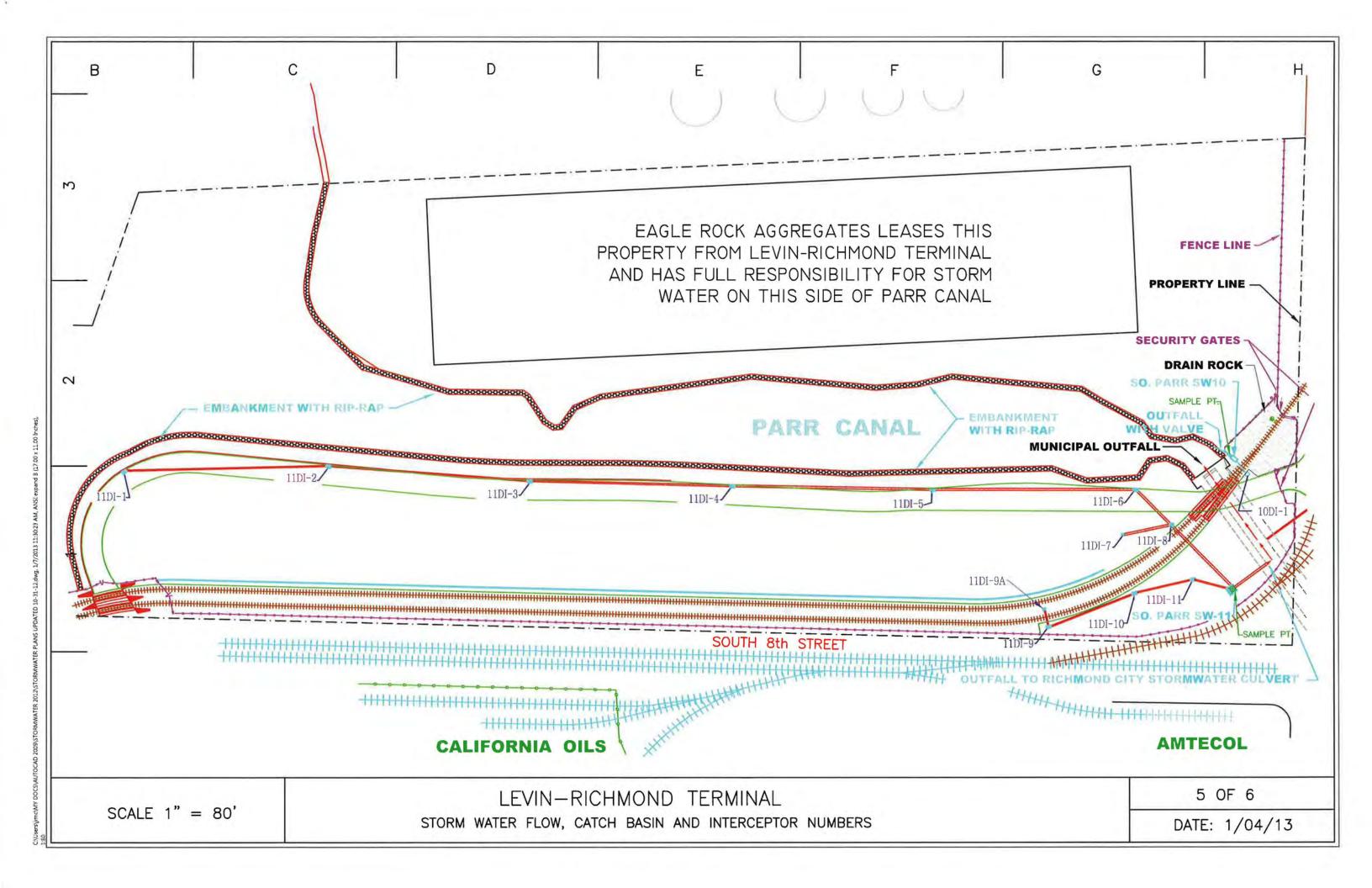


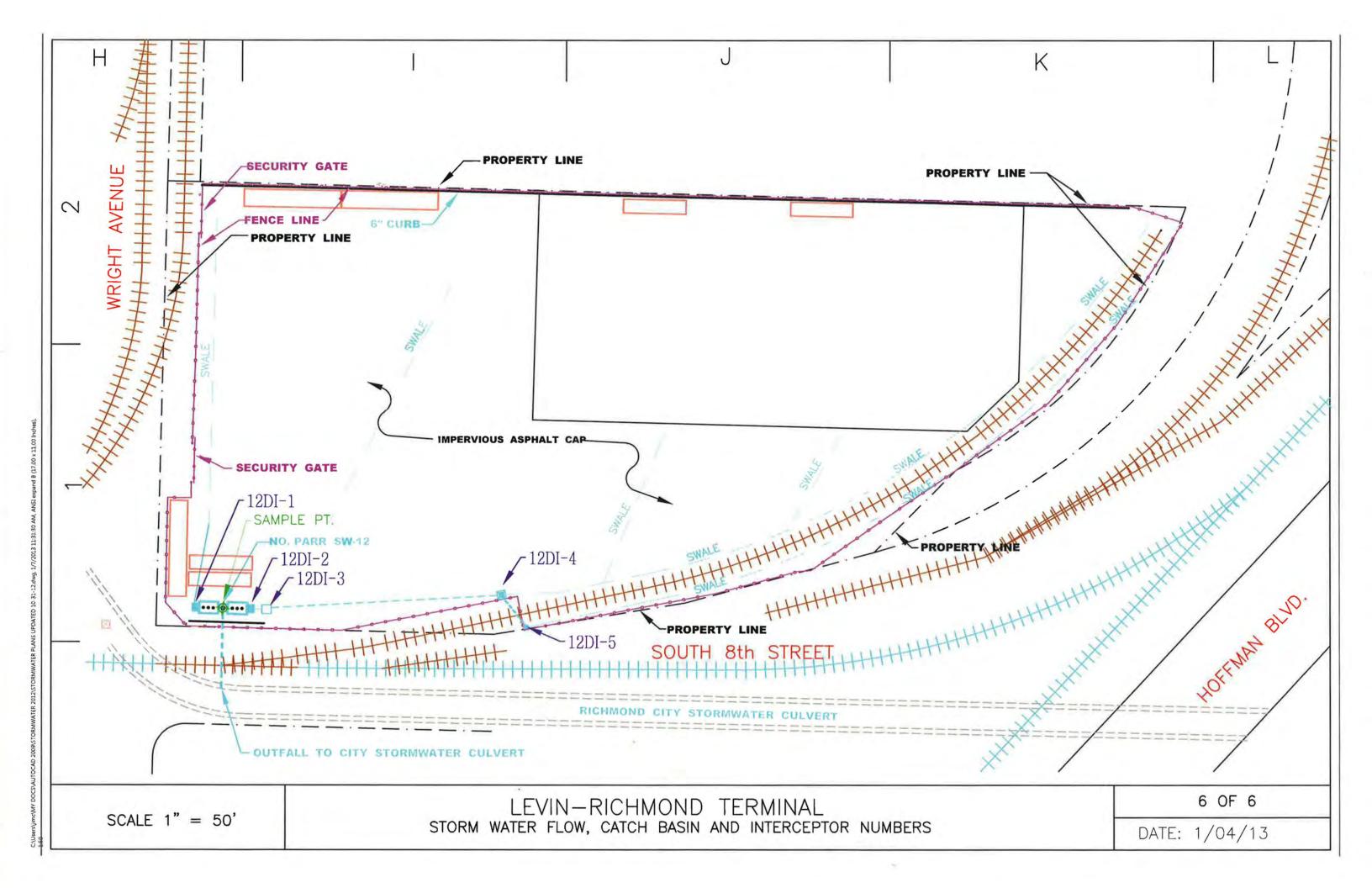
imc\MY DOCSYAUTOCAD 2009\STORMWATER 2012\STORMWATER PLANS UPDATED 10-31-12.dwg, 1/7/2013 11:26:39 AM, ANSI expand 8 (1'











Attachment B

Buster Building, General Contractor

License No. 513203

Inspection of Concrete Cap

May 24, 2012

BUSTER BUILDING, License 513203 C8

298 Cragmont, San Jose, California 95127 Phone: (408) 251-5446

Fax: (408) 251-3158

busterbn@pacbell.net

May 24, 2012

Environmental Technical Services 1548 Jacob Ave San Jose, CA 95118

Attn:

Helen Mawhinney

Senior Environmental Specialist

RE: Upland Cap Inspection, Former United Heckathorn Facility

402 Wright Avenue, Richmond, California

The Upland Cap located at the Former United Heckathorn Facility, was inspected by John Peterson for Buster Building, General Contractor, License No. 513203 C8 (concrete) on May 24, 2012, and found to be intact and in good condition.

The cap was found to be uncompromised and in good condition, with only occasional surface hairline cracks typical of those that develop subsequent to the curing of freshly poured concrete. The cracks are insignificant and not indicative of stress fractures. These surface cracks are too small to repair.

Sincerely,

John "Buster" Peterson General Contractor

Attachment C Tables

Annual Sampling Events

January 20, 2012 February 7, 2012 March 14, 2012

Discharge to Sanitary Sewer Stormwater Systems Cleanout Sampling Events

October 5, 2011 November 29, 2011 January 25, 2012 March 29, 2012 April 5, 2012

Other Sampling Events

October 27, 2011 January 25, 2012 March 14, 2012 May 9, 2012

Annual Sampling Events

January 20, 2012

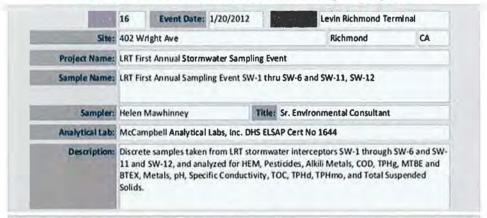
February 7, 2012

March 14, 2012

- 100	16	Event Date: 1/20/2012	Customer: Levin Richmond Ter	minal
Sites	402 W	right Ave	Richmond	CA
Project Name:	LRT FI	st Annual Stormwater Samplin	g Event	
Sample Name:	LRT Flo	st Annual Sampling Event SW-	thru SW-6 and SW-11, SW-12	
Sampler:	Helen	Mawhinney	Sr. Environmental Consultant	
Analytical Lab:	McCar	npbell Analytical Labs, Inc. DHS	ELSAP Cert No 1644	
Description:	11 and	SW-12, and analyzed for HEM Metals, pH, Specific Conductivi	mwater interceptors SW-1 through , Pestiddes, Alkili Metals, COD, TPH; ty, TOC, TPHd, TPHmo, and Total Su	MTBE and

Sample Location: SW-1	Sample Times	1/20/2012	12:00:00	PM	
Analyte		Result	Limit	UOM	Method
Endrin aldehyde		ND	0.05	ppb	SW8081A
Endrin ketone		ND	0.05	ppb	SW8081A
Heptachlor		ND	0.01	ppb	SW8081A
Heptachlor epoxide		ND	0.01	ppb	SW8081A
Petroleum Hydrocarbons - Gasoline	e, Total	ND	50	ppb	SW8260B
Endrin		ND	0.01	ppb	SW8081A
Endosulfan sulfate		ND	0.05	ppb	SW8081A
Hexachlorocyclopentadiene		ND	1	ppb	SW8081A
Methoxychlor		ND	0.1	ppb	SW8081A
Toxaphene		ND	0.5	ррь	SW8081A
Copper		22	0.5	ppb	E200.8
TPH-Motor Oil (C18-C36)		330	250	ppb	SW80158
Toluene		ND	0.5	ppb	SW8260B
Hexachlorobenzene		ND	0.5	ppb	SW8081A
Benzene		ND	0.5	ppb	SW82608
TPH-Diesel (C10-C23)		200	50	ppb	SW80158
Lead		20	0.5	ppb	E200.8
Chemical Oxygen Demand		15	10	ppm	SM5220D
Iron		1600	50	ppb	E200.7
Aluminum		640	50	ppb	E200.7
рН		7.39	0.05	pH units @ *C	SM4500H+8
Zinc		170	5	ppb	E200.8
Specific Conductivity		117	10	µmhos/cm@25°C	SM2510B
Xylenes, Total		ND	0.5	ppb	SW8260B
Endosulfan II		ND	0.02	ppb	SW8081A
Vanadium		5	0.5	ppb	E200.8
Organic Carbon, Total		5.6	0.3	ppm	E415.3
Ethylbenzene		ND	0.5	ppb	SW8260B
g-BHC		ND	0.02	ppb	SW8081A
Hexane Extractable Material w/o S	ilca Gel Cleanup	ND	5	ppm	E1664A

Laboratory Analytical Report	1/20/2012	Levin Richmond Terminal
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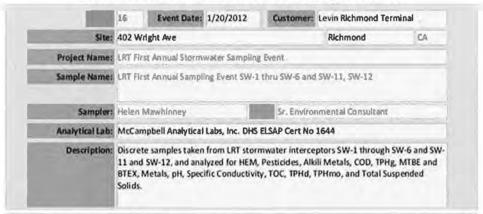
Sample Location: SW-1	Sample Time:	1/20/2012 12:00:00 PM				
Analyte		Result	Limit	UOM	Method	
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW82608	
Endosulfan I		ND	0.02	ppb	SW8081A	
Aldrin		ND	0.005	ppb	SW8081A	
Total Suspended Solids		48	1	ppm	SM2540D	
d-BHC		ND	0.005	ppb	SW8081A	
a-BHC		ND	0.01	ppb	SW8081A	
Chlordane (Technical)		ND	0.1	ppb	SW8081A	
a- Chlordane		ND	0.05	ppb	SW8081A	
g-Chlordane		ND	0.05	ppb	SW8081A	
p,p-DDD		ND	0.01	ppb	SW8081A	
p,p-DDE		ND	0.01	ppb	SW8081A	
p,p-DDT		ND	0.01	ppb	SW8081A	
Dieldrin		ND	0.01	ppb	SW8081A	
b-BHC		ND	0.005	ppb	SW8081A	



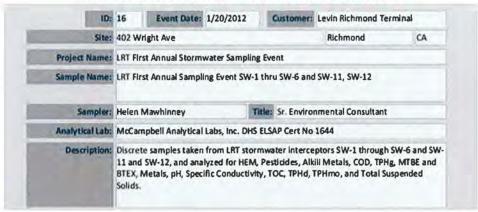
Sample Location: SW-2	Sample Time:	1/20/2012 1:00:00 PM			
Analyt	2	Result	Limit	UOM	Method
Zinc		450	5	ppb	E200.8
Соррег		49	0.5	ppb	E200.8
Xylenes, Total		ND	0.5	ppb	SW82608
Toluene		ND	0.5	ppb	SW82608
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW82608
Ethylbenzene		ND	0.5	ppb	SW82608
Petroleum Hydrocarbons - Gaso	line, Total	ND	50	ppb	SW82608
Vanadium		25	0.5	ppb	E200.8
Aluminum		5400	50	ppb	E200.7
Iron		10000	50	ppb	E200,7
Lead		75	0.5	ppb	E200.8
Chemical Oxygen Demand		310	10	ppm	SM5220D
Benzene		ND	0.5	ppb	SW82608
Endrin ketone		ND	0.05	ppb	SW8081A
g-Chlordane		ND	0.05	ppb	SW8081A
TPH-Motor Oil (C18-C36)		ND	250	ppb	SW80158
p.p-DOD		ND	0.01	ppb	SW8081A
p,p-DDE		ND	0.01	ppb	SW8081A
p,p-DDT		ND	0.01	ppb	SW8081A
Dieldrin		ND	0.01	ppb	SW8081A
Endosulfan I		ND	0.02	ppb	SW8081A
a-Chlordane		ND	0.05	ppb	SW8081A
Endrin aldehyde		ND	0.05	ppb	SW8081A
Endosulfan II		ND	0.02	ppb	SW8081A
Heptachlor		ND	0.01	ppb	SW8081A
Heptachlor epoxide		ND	0.01	ppb	SW8081A
Hexachlorobenzene		ND	0.5	ppb	SW8081A
Hexachlorocyclopentadiene		ND	1	ppb	SW8081A
Methoxychlor		ND	0.1	ppb	SW8081A
Toxaphene		ND	0.5	ppb	SW8081A

Laboratory Analytical Report 17 16 Event Date: 1/20/2012

Customer: Levin Richmond Terminal



Sample Location: SW-2	Sample Time:	1/20/2012 1:00:00 PM				
Analyte		Result	Limit	NOM	Method	
pH		7.03	0.05	pH units @ °C	SM4500H+8	
Endosulfan sulfate		ND	0.05	ppb	SW8081A	
d-BHC		ND	0.005	ppb	SW8081A	
Endrin		ND	0.01	ppb	SW8081A	
Chlordane (Technical)		ND	0.1	ppb	SW8081A	
Aldrin		ND	0.005	ppb	SW8081A	
a-BHC		ND	0.01	ppb	SW8081A	
Specific Conductivity		192	10	µmhos/cm@25°C	SM2510B	
ь-внс		ND	0.005	ppb	SW8081A	
Hexane Extractable Material w/	o Silica Gel Cleanup	ND	5	ppm	E1664A	
Organic Carbon, Total		18	0.3	ppm	E415.3	
Total Suspended Solids		330	1	ppm	SM2540D	
TPH-Diesel (C10-C23)		77	50	ppb	SW8015B	
g-BHC		ND	0.02	ppb	SW8081A	



Sample Location: SW-3 Sample Time:	1/20/2012 1:20:00 PM				
Analyte	Result	Limit	UOM	Method	
Lead	9.9	0.5	ppb	E200.8	
Iron	3900	50	ppb	E200.7	
g-BHC	ND	0.02	ppb	SW8081A	
Chlordane (Technical)	ND	0.1	ppb	SW8081A	
g-Chlordane	ND	0.05	ppb	SW8081A	
Dieldrin	ND	0.01	ppb	SW8081A	
Aluminum	1700	50	ppb	E200.7	
a- Chlordane	ND	0.05	ppb	SW8081A	
d-BHC	ND	0.005	ррь	SW8081A	
p,p-DOT	ND	0.01	ppb	SW8081A	
p,p-DDD	ND	0.01	ppb	SW8081A	
TPH-Motor Oil (C18-C36)	ND	250	ppb	SW80158	
Endosulfan I	ND	0.02	ррь	SW8081A	
b-BHC	ND	0.005	ppb	SW8081A	
a-BHC	ND	0.01	ppb	SW8081A	
Aldrin	ND	0.005	ppb	SW8081A	
Total Suspended Solids	68	1	ppm	SM2540D	
Hexane Extractable Material w/o Silica Gel Cleanup	ND	5	ppm	E1664A	
Petroleum Hydrocarbons - Gasoline, Total	ND	50	ppb	SW8260B	
Endosulfan II	ND	0.02	ppb	SW8081A	
Copper	12	0.5	ррь	E200.8	
p,p-DOE	ND	0.01	ppb	SW8081A	
Xylenes, Total	ND	0.5	ppb	SW82608	
Toluene	ND	0.5	ppb	SW82608	
Methyl Tert-Butyl Ether	ND	0,5	ppb	SW82608	
Ethylbenzene	ND	0.5	ppb	SW82608	
Benzene	ND	0.5	ppb	SW82608	
Chemical Oxygen Demand	45	10	ppm	SM52200	
Methoxychlor	ND	0.1	ppb	SW8081A	
Endosulfan sulfate	ND	0.05	ppb	SW8081A	

Environmental Technical Services

ID: 16

Laboratory Analytical Report

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Event Date: 1/20/2012 Customer: Levin Richmond Terminal

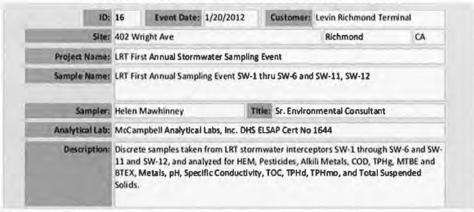
- Caracina		- Descriptions		
Site:	402 Wright Ave		Richmond	CA
Project Name:	LRT First Annual Stormwate	r Sampling Event		
Sample Name:	LRT First Annual Sampling E	vent SW-1 thru SW-6 and	SW-11, SW-12	
Sampler:	Helen Mawhinney	Sr. Enviror	nmental Consultant	
Analytical Lab:	McCampbell Analytical Labs	, Inc. DHS ELSAP Cert No	1644	
Description:	Discrete samples taken from 11 and SW-12, and analyzed BTEX, Metals, pH, Specific C Solids.	for HEM, Pestiddes, Alk	Ili Metals, COD, TPH	, MTBE and

Sample Location: SW-3	Sample Time:	1/20/2012 1:20:00 PM					
Analyts		Result	Limit	UOM	Method		
рН		7.41	0.05	pH units @ "C	SM4500H+8		
Zinc		91	5	ppb	E200.8		
Specific Conductivity		4350	10	µmhos/cm@25°C	SM25108		
Organic Carbon, Total		5.2	0.3	ppm	E415.3		
TPH-Diesel (C10-C23)		110	50	ppb	SW8015B		
Vanadium		13	0.5	ppb	E200.8		
Toxaphene		ND	0.5	ppb	SW8081A		
Hexachlorocydopentadiene		ND	1	ppb	SW8081A		
Hexachlorobenzene		ND	0.5	ppb	SW8081A		
Heptachlor epoxide		ND	0.01	ppb	SW8081A		
Heptachlor		ND	0.01	ppb	SW8081A		
Endrin ketone		ND	0.05	ppb	SW8081A		
Endrin aldehyde		ND	0.05	ppb	SW8081A		
Endrin		ND	0.01	ppb	SW8081A		

	16 Event Date: 1	1/20/2012 Custo	mer: Levin Richmond Te	rminal
Siter	402 Wright Ave		Richmond	CA
Project Name:	LRT First Annual Stormw	rater Sampling Event		
Sample Name:	LRT First Annual Samplin	g Event SW-1 thru SW-	6 and SW-11, SW-12	
Sampler:	Helen Mawhinney	Title: Sr. E	nvironmental Consultant	
Analytical Lab:	McCampbell Analytical L	abs, Inc. DHS ELSAP Ce	rt No 1644	
Descriptions		zed for HEM, Pestidde	iterceptors SW-1 through s, Alkill Metals, COD, TPH PHd, TPHmo, and Total St	g. MTBE and

Sample Location: SW-4 Sample	le Time: 1	1/20/2012 1:40:00 PM				
Analyte	- 1	Result	Limit	UOM	Method	
Organic Carbon, Total		4.8	0.3	ppm	E415.3	
Specific Conductivity		176	10	µmhos/cm@25°C	SM2510B	
TPH-Diesel (C10-C23)		110	50	ppb	SW8015B	
TPH-Motor Oll (C18-C36)		ND	250	ppb	SW8015B	
Methoxychlor		ND	0.1	ppb	SW8081A	
Aluminum		710	50	ppb	E200.7	
Toxaphene		ND	0.5	ppb	SW8081A	
Benzene		ND	0.5	ppb	SW8260B	
Ethylbenzene		ND	0.5	ppb	SW8260B	
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B	
Toluene		ND	0.5	ppb	SW8260B	
Xylenes, Total		ND	0.5	ppb	SW8260B	
Vanadium		7.8	0.5	ррь	E200.8	
Heptachlor epoxide		ND	0.01	ppb	SW8081A	
рН		7.61	0.05	pH units @ °C	SM4500H+8	
Hexane Extractable Material w/o Silica Gel Cle	anup	ND	5	ppm	E1664A	
Total Suspended Solids		17.6	1	ppm	SM2540D	
Zinc		65	5	ppb	E200.8	
Copper		12	0.5	ppb	E200.8	
Chemical Oxygen Demand		ND	10	ppm	SM5220D	
Aldrin		ND	0.005	ppb	SW8081A	
a-BHC		ND	0.01	ppb	SW8081A	
b-BHC		ND	0.005	ppb	SW8081A	
Iron		1400	50	ррь	E200.7	
Lead		6.7	0.5	ppb	£200.8	
d-BHC		ND	0.005	ррь	SW8081A	
g-BHC		ND	0.02	ppb	SW8081A	
Chlordane (Technical)		ND	0.1	ppb	SW8081A	
a-Chlordane		ND	0.05	ррь	SW8081A	
Hexachloro cyclopenta diene		ND	1	ppb	SW8081A	

Laboratory Analytical Report ID: 16 Event Date: 1/20/2012 Customer: Levin Richmond Terminal

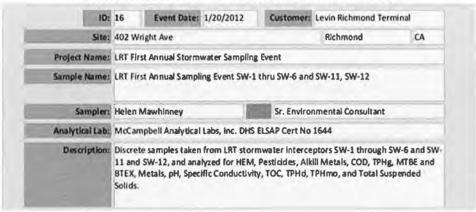


Sample Location: SW-4	Sample Time:	1/20/2012 1:40:00 PM				
Analyte		Result	Limit	UOM	Method	
p,p-DDD		ND	0.01	ppb	SW8081A	
Hexachlorobenzene		ND	0.5	ppb	SW8081A	
p,p-DOE		ND	0.01	ppb	SW8081A	
Dieldrin		ND	0.01	ppb	SW8081A	
Endosulfan I		ND	0.02	ppb	SW8081A	
Endosulfan II		ND	0.02	ppb	SW8081A	
Heptachlor		ND	0.01	ppb	SW8081A	
Endosulfan sulfate		ND	0.05	ppb	SW8081A	
Endrin		ND	0.01	ppb	SW8081A	
p,p-DDT		ND	0.01	ppb	SW8081A	
g-Chlordane		ND	0.05	ppb	SW8081A	
Petroleum Hydrocarbons - Gaso	line, Total	ND	50	ppb	SW8260B	
Endrin ketone		ND	0.05	ppb	SW8081A	
Endrin aldehyde		ND	0.05	ppb	SW8081A	

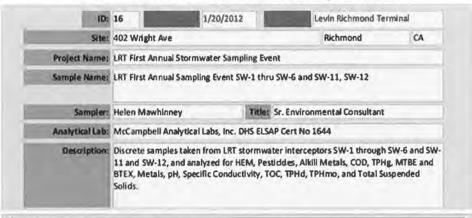
ID:	16	Event Date: 1/20/2012		Levin Richmond Te	rminal
Site:	402 W	right Ave		Richmond	CA
Project Name:	LRT Fir	st Annual Stormwater Samp	oling Event		
Sample Name:	LRT Fir	st Annual Sampling Event SV	W-1 thru SW	-6 and SW-11, SW-12	
Sampler:	Helen	Mawhinney	Title: Sr. E	Environmental Consultant	
Analytical Lab:	McCan	npbell Analytical Labs, Inc. D	HS ELSAP C	ert No 1644	
21000	11 and	e samples taken from LRT s SW-12, and analyzed for Hi Vetals, pH, Specific Conduct	EM, Pesticide	es, Alkili Metals, COD, TPH	g. MTBE and

Sample Location: SW-5	Sample Time:	1/20/2012 2:00:00 PM				
Analyt		Result	Limit	UOM	Method	
TPH-Diesel (C10-C23)		120	50	ppb	SW8015B	
Zinc		88	5	ppb	£200.8	
Lead		4.2	0.5	ppb	E200.8	
Total Suspended Solids		8.4	1	ppm -	SM2540D	
TPH-Motor Oil (C18-C36)		300	250	ppb	SW80158	
Vanadlum		4.3	0.5	ppb	£200.8	
Copper		19	0.5	ppb	£200.8	
Organic Carbon, Total		7.9	0.3	ppm	E415.3	
Specific Conductivity		149	10	µmhos/cm@25℃	SM2510B	
рН		7.43	0.05	pH units @ °C	SM4500H+B	
Endrin aldehyde		ND	0.05	ppb	SW8081A	
g-Chlordane		ND	0.05	ppb	SW8081A	
p,p-DDD		ND	0.01	ppb	SW8081A	
p,p-DOE		ND	0.01	ppb	SW8081A	
p.p-DOT		ND	0.01	ppb	SW8081A	
Dieldrin		ND	0.01	ppb	SW8081A	
Endosulfan I		ND	0.02	ppb	SW8081A	
Endosulfan II		ND	0.02	ppb	SW8081A	
Chlordane (Technical)		ND	0.1	ppb	SW8081A	
Endrin		ND	0.01	ppb	SW8081A	
a-Chlordane		ND	0.05	ррь	SW8081A	
Endrin ketone		ND	0.05	ppb	SW8081A	
Heptachlor		ND	0.01	ppb	SW8081A	
Heptachlor epoxide		ND	0.01	ppb	SW8081A	
Hexachlorobenzene		ND	0.5	ppb	SW8081A	
Hexachlorocyclopentadiene		ND	1	ррь	SW8081A	
Methoxychlor		ND	0.1	ppb	SW8081A	
Toxaphene		ND	0.5	ppb	SW8081A	
Endosulfan sulfate		ND	0.05	ppb	SW8081A	
a-BHC		ND	0.01	ppb	SW8081A	

Laboratory Analytical Report 16 1/20/2012 Levin Richmond Terminal



Sample Location: SW-5 Sample Time	1/20/201	2 2:00:00 PM		
Analyte	Result	Limit	UOM	Method
Xylenes, Total	ND	0.5	ppb	SW8260B
Toluene	ND	0.5	ppb	SW8260B
Methyl Tert-Butyl Ether	ND	0.5	ppb	SW8260B
Ethylbenzene	ND	0.5	ppb	SW8260B
Aluminum	160	50	ppb	E200.7
Hexane Extractable Material w/o Silica Gel Cleanup	ND	5	ppm	E1664A
Petroleum Hydrocarbons - Gasoline, Total	ND	50	ppb	SW8260B
Benzene	ND	0.5	ppb	SW8260B
Chemical Oxygen Demand	17	10	ppm	SM52200
b-BHC	ND	0.005	ppb	SW8081A
Iron	440	50	ppb	E200.7
d-BHC	ND	0.005	ppb	SW8081A
g-BHC	ND	0.02	ppb	SW8081A
Aldrin	ND	0.005	ppb	SW8081A



Sample Location: SW-6	Sample Time:	1/20/2012 3:00:00 PM				
Analyt	2	Result	Limit	UOM	Method	
Xylenes, Total		ND	0.5	ppb	SW8260B	
Hexane Extractable Material w/	o Silica Gel Cleanup	ND	5	ppm	E1664A	
Total Suspended Solids		10.8	1	ppm	SM2540D	
Aldrin		ND	0.005	ppb	SW8081A	
Specific Conductivity		139	10	µmhos/cm@25°C	SM2510B	
TPH-Diesel (C10-C23)		220	50	ppb	SW8015B	
Organic Carbon, Total		8	0.3	ppm	E415.3	
a- ВНС		ND	0.01	ppb	SW8081A	
pH		7.38	0.05	pH units @ *C	SM4500H+8	
TPH-Motor Oil (C18-C36)		320	250	ppb	SW8015B	
Chemical Oxygen Demand		15	10	ppm	SM5220D	
Heptachlor		ND	0.01	ppb	SW8081A	
Hexachlorobenzene		ND	0.5	ppb	SW8081A	
b-BHC		ND	0.005	ppb	SW8081A	
Methoxychlor		ND	0.1	ppb	SW8081A	
Toxaphene		ND	0.5	ppb	SW8081A	
Lead		8.5	0,5	ppb	E200.8	
Vanadium		5.3	0.5	ppb	E200.8	
Iron		700	50	ppb	£200.7	
Heptachlor epoxide		ND	0.01	ppb	SW8081A	
Petroleum Hydrocarbons - Gasc	line, Total	ND	50	ppb	SW8260B	
Cop per		32	0.5	ppb	E200.8	
Benzene		ND	0.5	ppb	SW8260B	
Ethylbenzene		ND	0.5	ppb	SW8260B	
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B	
Toluene		ND	0.5	ppb	SW8260B	
Aluminum		300	50	ppb	E200.7	
g-Chlordane		ND	0.05	ppb	SW8081A	
d-BHC		ND	0.005	ppb	SW8081A	
g-BHC		ND	0.02	ppb	SW8081A	

Laboratory Analytical Report 16 1/20/2012 Levin Richmond Terminal



Sample Location: SW-6	Sample Time:	1/20/201			
Analyts	Analyte		Limit	UOM	Method
Chlordane (Technical)		ND	0.1	ppb	SW8081A
Hexachlorocydopentadiene		ND	1	ppb	SW8081A
a-Chlordane		ND	0.05	ppb	SW8081A
Endrin ketone		ND	0.05	ppb	SW8081A
p,p-000		ND	0.01	ppb	SW8081A
p,p-DDE		ND	0.01	ppb	SW8081A
Endrin		ND	0.01	ppb	SW8081A
Zinc		180	5	ppb	E200.8
Dieldrin		ND	0.01	ppb	SW8081A
Endosulfan I		ND	0.02	ppb	SW8081A
Endosulfan II		ND	0.02	ppb	SW8081A
Endosulfan sulfate		ND	0.05	ppb	SW8081A
p,p-DDT		ND	0.01	ppb	SW8081A
Endrin aldehyde		ND	0.05	ppb	SW8081A

ID:	16 Event Date: 1/20/2012	Customer: Levin Richmond Terminal
Site:	402 Wright Ave	Richmond
Project Name:	LRT First Annual Stormwater Samp	iling Event
Sample Name:	LRT First Annual Sampling Event SV	W-1 thru SW-6 and SW-11, SW-12
Sampler:	Helen Mawhinney	Sr. Environmental Consultant
Analytical Lab:	McCampbell Analytical Labs, Inc. D	OHS ELSAP Cert No 1644
Description:	11 and SW-12, and analyzed for HE	tormwater interceptors SW-1 through SW-6 and EM, Pestiddes, Alkill Metals, COD, TPHg, MTBE a tivity, TOC, TPHd, TPHmo, and Total Suspended

Sample Location: SW-11	Sample Time:	1/20/2012 12:20:00 PM				
Analyte		Result	Limit	UOM	Method	
p,p-DDE		ND<0.050	0.01	ppb	SW8081A	
Xylenes, Total		ND	0.5	ppb	SW8260B	
p,p-DDD		ND<0.050	0.01	ppb	SW8081A	
TPH-Diesel (C10-C23)		260	50	ppb	SW80158	
g-Chlordane		ND<0.25	0.05	ppb	SW8081A	
a-Chlordane		ND<0.25	0.05	ppb	SW8081A	
p,p-DDT		ND<0.050	0.01	ppb	SW8081A	
Aluminum		2000	50	ppb	E200.7	
Chlordane (Technical)		ND	0.1	ppb	5W8081A	
Lead		18	0.5	ppb	E200.8	
Dieldrin		ND<0.050	0.01	ppb	SW8081A	
Endosulfan I		ND	0.02	ppb	SW8081A	
Endosulfan II		ND	0.02	ppb	SW8081A	
Endosulfan sulfate		ND	0.05	ppb	SW8081A	
g-BHC		ND<0.10	0.02	ppb	SW8081A	
Endrin aldehyde		ND	0.05	ppb	SW8081A	
Endrin ketone		ND.	0.05	ppb	SW8081A	
Heptachlo <i>r</i>		ND<0.050	0.01	ppb	SW8081A	
Heptachlor epoxide		ND	0.01	ppb	SW8081A	
Hexachlorobenzene		ND<2.5	0,5	ppb	SW8081A	
Hexachloro cy do pentadiene		ND<5.0	1	ppb	SW8081A	
Methoxychlor		ND<0.50	0.1	ppb	SW8081A	
Endrin		ND<0.050	0.01	ppb	SW8081A	
Copper		14	0.5	ppb	E200.8	
Toluene		ND	0.5	ppb	SW8260B	
Zinc		120	5	ppb	E200.8	
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B	
рН		7.75	0.05	pH units @ °C	SM4500H+6	
Ethylbenzene		ND	0.5	ppb	SW8260B	
Vanadium		68	0.5	ppb	E200.8	

Event Date: 1/20/2012

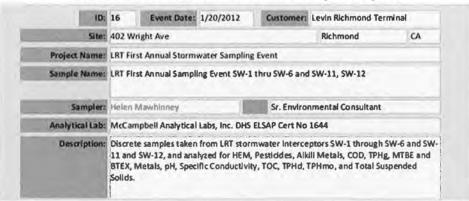
Levin Richmond Terminal

	16 1/2	0/2012	Levin Richmond Tea	rminal
Site:	402 Wright Ave		Richmond	CA
Project Name:	LRT First Annual Stormwate	er Sampling Event		
Sample Name:	LRT First Annual Sampling 6	event SW-1 thru SW-6	5 and SW-11, SW-12	
Sampler:	Helen Mawhinney	Title: Sr. Er	nvironmental Consultant	
Analytical Lab:	McCampbell Analytical Lab	s, Inc. DHS ELSAP Cer	t No 1644	
Description:	Discrete samples taken from 11 and SW-12, and analyze BTEX, Metals, pH, Specific C Solids.	d for HEM, Pestidde	, Alkili Metals, COD, TPH	g, MTBE and

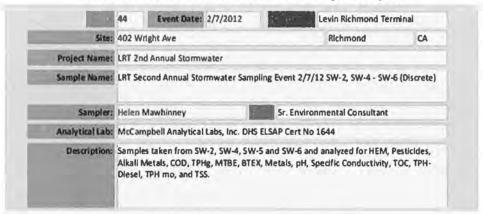
Sample Location: SW-11	Sample Time:	1/20/2012 12:20:00 PM				
Analyte		Result	Limit	UOM	Method	
Benzene		ND	0.5	ppb	SW8260B	
Hexane Extractable Material w/o Silk	a Gel Cleanup	ND	5	ppm	E1664A	
TPH-Motor Oil (C18-C36)		640	250	ppb	SW80158	
d-BHC		ND<0.025	0.005	ppb	SW8081A	
Petroleum Hydrocarbons - Gasoline,	Total	ND	50	ppb	SW8260B	
Chemical Oxygen Demand		190	10	ppm	SM5220D	
Iron		4000	50	ppb	E200.7	
Organic Carbon, Total		3 -	0.3	ppm	E415.3	
Toxaphene		ND<2.5	0.5	ppb	SW8081A	
Specific Conductivity		2010	10	µmhos/cm@25°C	SM2510B	
b-BHC		ND<0.025	0.005	ppb	SW8081A	
Total Suspended Solids		220	1	ppm	SM2540D	
a-BHC		ND<0.050	0.01	ppb	SW8081A	
Aldrin		ND<0.025	0.005	ppb	SW8081A	

30.0	16 Event Date: 1	/20/2012	Customer: Levin Richmond Te	rminal
Site:	402 Wright Ave		Richmond	CA
Project Name:	LRT First Annual Stormwa	ater Sampling Ev	ent	
Sample Name:	LRT First Annual Sampling	g Event SW-1 thr	u SW-6 and SW-11, SW-12	
Sampler	Helen Mawhinney	Title	Sr. Environmental Consultant	
Analytical Lab:	McCampbell Analytical La	abs, Inc. DHS ELS	AP Cert No 1644	
Description:	11 and SW-12, and analys	zed for HEM, Pe	ater interceptors SW-1 through stiddes, Alkili Metals, COD, TPH OC, TPHd, TPHmo, and Total Su	MTBE and

Sample Location: SW-12	Sample Time:	e: 1/20/2012 12:40:00 PM					
Analyse		Result	Limit	UOM	Method		
Lead		4.3	0.5	ppb	E200.8		
TPH-Diesel (C10-C23)		120	50	ppb	SW8015B		
Benzene		ND	0.5	ppb	SW8260B		
pH		7.86	0.05	pH units @ °C	SM4500H+6		
Vanadium		8.5	0.5	ppb	E200.8		
Total Suspended Solids		3.2	1	ppm	SM2540D		
Organic Carbon, Total		9.1	0.3	ppm	E415.3		
Specific Conductivity		136	10	µmhos/cm@25°C	SM2510B		
Endosulfan I		ND<0.10	0.02	ppb	SW8081A		
Chemical Oxygen Demand		17	10	ppm	SM5220D		
Hexachloro cyclopenta dlene		ND	1	ppb	SW8081A		
Methoxychlor		ND	0.1	ррь	SW8081A		
Toxaphene		ND	0.5	ppb	SW8081A		
Aldrin		ND	0.005	ppb	SW8081A		
Ethylbenzene		ND	0.5	ppb	SW8260B		
p,p-DDT		ND	0.01	ppb	SW8081A		
Hexachlorobenzene		ND	0.5	ppb	SW8081A		
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B		
Aluminum		200	50	ppb	E200.7		
TPH-Motor Oll (C18-C36)		ND	250	ppb	SW80158		
Copper		20	0.5	ppb	E200.8		
Petroleum Hydrocarbons - Gasoline, T	otal	ND	50	ppb	SW8260B		
Zinc		57	5	ppb	E200.8		
Hexane Extractable Material w/o Silic	a Gel Cleanup	ND	5	ppm	E1664A		
Xylenes, Total		ND	0.5	ppb	SW8260B		
Toluene		ND	0.5	ppb	SW8260B		
Iron		520	50	ррь	E200.7		
a-Chlordane		ND	0.05	ppb	SW8081A		
a-BHC		ND	0.01	ррь	SW8081A		
b-BHC		ND	0.005	ppb	SW8081A		



Sample Location: SW-12	Sample Time:	1/20/2012	1/20/2012 12:40:00 PM				
Analyte		Result	Limit	NOW	Method		
d-BHC		ND :	0.005	ppb	SW8081A		
g-BHC		ND	0.02	ppb	SW8081A		
Chlordane (Technical)		ND<0.50	0.1	ppb	SW8081A		
Heptachlor epoxide		ND<0.050	0.01	ppb	SW8081A		
g-Chlordane		ND	0.05	ppb	SW8081A		
p,p-DDD		ND	0.01	ppb	SW8081A		
Endrin aldehyde		ND<0.25	0.05	ppb	SW8081A		
Heptachlor		ND	0.01	ppb	SW8081A		
Endrin ketone		ND<0.25	0.05	ppb	SW8081A		
Dieldrin		ND	0.01	ppb	SW8081A		
Endosulfan II		ND<0.10	0.02	ppb	SW8081A		
Endosulfan sulfate		ND<0.25	0.05	ppb	SW8081A		
Endrin		ND	0.01	ppb	SW8081A		
p,p-DDE		ND	0.01	ppb	SW8081A		

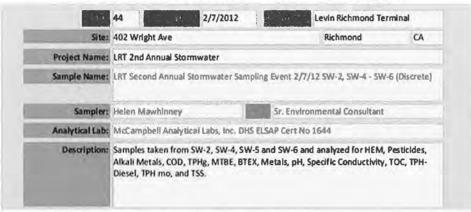


Sample Location: SW-2	Sample Time:	2/7/201	2 9:15:00	AM	
Analyte		Result	Limit	UOM	Method
Methoxychlor		ND	0.1	ppb	SW8081A
Copper		14	0.5	ppb	E200.8
Lead		7.4	0.5	ppb	E200.8
TPH-Diesel (C10-C23)		75	50	ppb	SW8015B
TPH-Motor Oil (C18-C36)		ND	250	ррь	SW80158
Toxaphene		ND	0.5	ppb	SW8081A
pH		7.76	0.05	pH units @ "C	SM4500H+8
Hexachlorocy dopentadiene		ND	1	ppb	SW8081A
Hexachlorobenzene		ND	0.5	ppb	SW8081A
Heptachlor epoxide		ND	0.01	ppb	SW8081A
Heptachlor		ND	0.01	ppb	SW8081A
Endrin ketone		ND	0.05	ppb	SW8081A
Total Suspended Solids		73.5	1	ppm	SM2540D
Specific Conductivity		157	10	μmhos/cm @ 25°C	SM2510B
Aluminum		1200	50	ppb	£200.7
Iron		2200	50	ppb	E200.7
Chemical Oxygen Demand		46	10	ppm	SM5220D
Endrin aldehyde		ND	0.05	ppb	SW8081A
g-BHC		ND	0.02	ppb	SW8081A
Petroleum Hydrocarbons - Gaso	line, Total	ND	50	ppb	SW8260B
Benzene		NO	0.5	ppb	SW8260B
Ethylbenzene		ND	0.5	ppb	SW8260B
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B
Vanadium		11	0.5	ррь	E200.8
Zinc		77	5	ррь	E200.8
Organic Carbon, Total		5.3	0.3	ppm	E415.3
Chlordane (Technical)		ND	0.1	ppb	SW8081A
d-BHC		ND	0.005	ррь	SW8081A
Xylenes, Total		ND	0.5	ppb	SW8260B
b-BHC		ND	0.005	ppb	SW8081A

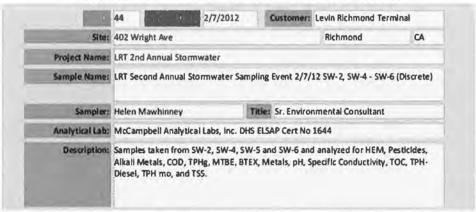
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Event Date: 2/7/2012

Customer: Levin Richmond Terminal



Sample Location: SW-2	ocation: SW-2 Sample Time: 2/7/2012 9:				
Analyte	2	Result	Limit	UOM	Method
a-BHC		ND	0.01	ppb	SW8081A
Endrin		ND	0.01	ppb	SW8081A
Hexane Extractable Material w/	Silica Gel Cleanup	ND	5	ppm	E1664A
Aldrin		ND	0.005	ppb	SW8081A
Toluene		ND	0.5	ppb	SW8260B
g-Chlordane		ND	0.05	ppb	SW8081A
p,p-DDD		ND	0.01	ppb	SW8081A
p,p-DDE		ND	0.01	ppb	SW8081A
p,p·DDT		ND	0.01	ppb	5W8081A
Dieldrin		ND	0.01	ppb	SW8081A
Endosulfan I		ND	0.02	ppb	SW8081A
Endosulfan II		ND	0.02	ppb	SW8081A
Endosulfan sulfate		ND	0.05	ppb	SW8081A
a-Chlordane		ND	0.05	ppb	SW8081A



Sample Location: SW-4	Sample Time:	2/7/2012			
Analyt	2	Result	Limit	MOU	Method
Copper		6.8	0.5	ppb	E200.8
Benzene		ND	0.5	ppb	SW8260B
Toluene		ND	0.5	ppb	SW8260B
Petroleum Hydrocarbons - Gase	oline, Total	ND	50	ppb	SW8260B
Organic Carbon, Total		1.5	0,3	ppm	E415.3
Chemical Oxygen Demand		ND	10	ppm	SM5220D
Zinc		42	5	ppb	E200.8
pH		7.70	0.05	pH units @ "C	SM4500H+6
Total Suspended Solids		16.4	1	ppm	SM2540D
Ethylbenzene		ND	0.5	ppb	SW8260B
Iron		1300	50	ppb	E200.7
Methoxychlor		ND	0.1	ppb	SW8081A
Aluminum		770	50	ppb	E200.7
Lead		4.7	0.5	ppb	E200.8
Hexane Extractable Material w	o Silica Gel Cleanup	ND	5	ppm	E1664A
TPH-Motor Oil (C18-C36)		ND	250	ppb	SW8015B
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B
Endosulfan sulfate		ND	0.05	ppb	SW8081A
Aldrin		ND	0.005	ppb	SW8081A
a-BHC		ND	0.01	ppb	SW8081A
b-8HC		ND	0.005	ppb	SW8081A
d-BHC		ND	0.005	ppb	SW8081A
g-BHC		ND	0.02	ppb	SW8081A
Chlordane (Technical)		ND	0.1	ppb	SW8081A
a-Chlordane		ND	0.05	ррь	SW8081A
g-Chlordane		ND	0.05	ррь	SW8081A
p,p-DOD		ND	0.01	ppb	SW8081A
p,p-DOE		ND	0.01	ррь	SW8081A
p,p-DOT		ND	0.01	ppb	SW8081A
Dieldrin		ND	0.01	ppb	SW8081A

Laboratory Analytical Report ID: 44

Event Date: 2/7/2012

Customer: Levin Richmond Terminal



Sample Location: SW-4	Sample Time:	2/7/2012	10:20:00	AM	
Analyte		Result	Limit	UOM	Method
Xylenes, Total		ND	0.5	ppb	SW8260B
Endosulfan II		ND	0.02	ppb	5W8081A
Specific Conductivity		99.4	10	μmhos/cm @ 25°C	SM2510B
Endrin		ND	0.01	ррь	SW8081A
Endrin aldehyde		ND	0.05	ppb	SW8081A
Endrin ketone		ND	0.05	ppb	SW8081A
Heptachlor		ND	0.01	ppb	SW8081A
Heptachlor epoxide		ND	0.01	ppb	SW8081A
Hexachloro benzene		ND	0.5	ppb	SW8081A
Hexachloro cyclopenta dien e		ND	1	ppb	SW8081A
Toxaphene		ND	0.5	ppb	SW8081A
TPH-Diesel (C10-C23)		ND	50	ppb	SW80158
Vanadium		10	0.5	ppb	E200.8
Endosulfan I		ND	0.02	ppb	SW8081A

elect.	******	As also		ni-h	
Site	402 Wri	gnt ave		Richmond	CA
Project Name:	LRT 2nd	Annual Stormwater			
Sample Name:	LRT Sec	ond Annual Stormwater Sar	mpling Event 2/7/1	12 SW-2, SW-4 - SW	-6 (Discrete
Sampler:	Helen M	Mawhinney	Sr. Environ	mental Consultant	
Analytical Lab:	McCam	pbell Analytical Labs, Inc. D	HS ELSAP Cert No	1644	
Description:	Alkali M	s taken from SW-2, SW-4, S letals, COD, TPHg, MTBE, B TPH mo, and TSS.			

Sample Location: SW-5	Sample Time:	2/7/2012	11:46:00 A	M		
Analyt	2	Result	Limit	UOM	Method	
Xylenes, Total		ND	0.5	ppb	SW82608	
pH		7.50	0.05	pH units @ °C	SM4500H+6	
Hexane Extractable Material w/	o Silica Gel Cleanup	ND	5	ppm	E1664A	
Aluminum		360	50	ppb	E200.7	
Iron		830	50	ppb	E200.7	
Zinc		78	5	ррь	E200.8	
Chemical Oxygen Demand		13	10	ppm	SM5220D	
Total Suspended Solids		15.4	1	ppm	SM2540D	
Petroleum Hydrocarbons - Gasc	oline, Total	ND	50	ррь	SW8260B	
Methyl Tert-Butyl Ether		ND	0.5	ррь	SW8260B	
Vanadium		5.5	0.5	ppb	E200.8	
Heptachlor epoxide		ND	0.01	ppb	SW8081A	
Ethylbenzene		ND	0.5	ррь	SW8260B	
Benzene		ND	0.5	ppb	SW8260B	
Endrin		ND	0.01	ррь	SW8081A	
Aldrin		ND	0.005	ppb	SW8081A	
a-BHC		ND	0.01	ppb	SW8081A	
b-BHC		ND	0.005	ррь	SW8081A	
d-BHC		ND	0.005	ppb	SW8081A	
g-BHC		ND	0.02	ррь	SW8081A	
Chlordane (Technical)		ND	0.1	ррь	SW8081A	
a-Chlordane		ND	0.05	ppb	SW8081A	
g-Chlordane		ND	0.05	ppb	SW8081A	
p,p-DDD		ND	0.01	ррь	SW8081A	
p,p-DDE		ND	0.01	ppb	5W8081A	
p,p-DOT		ND	0.01	ppb	SW8081A	
Dieldrin		ND	0.01	ppb	SW8081A	
Endosulfan I		ND	0.02	ррь	SW8081A	
Hexachloro cy do pentadiene		ND	1	ppb	SW8081A	
Methoxychlor		ND	0.1	ppb	SW8081A	

ID:	***	Event Date: 2/	1/2012	CASTORNEY	Levin Richmond Te	titiatidi
Site:	402 Wri	ight Ave			Richmond	CA
Project Name:	LRT 2nd	Annual Stormwat	ter			
Sample Name:	LRT Sec	ond Annual Storm	water Samp	ng Event 2/7	12 SW-2, SW-4 - SW	/-6 (Discrete
Sampler:	Helen N	Mawhinney	T	le: Sr. Enviro	nmental Consultant	
		Aawhinney pbell Analytical La	- 100	The second second		

Sample Location: SW-5	Sample Time:	2/7/2012 11:46:00 AM				
Analyte		Result	Limit	UOM	Method	
Copper		24	0.5	ppb	E200.8	
Organic Carbon, Total		3.8	0.3	ppm	E415.3	
Toluene		ND	0.5	ppb	SW8260B	
TPH-Diesel (C10-C23)		97	50	ppb	SW8015B	
Endosulfan II		ND	0.02	ppb	SW8081A	
Toxaphene		ND	0.5	ppb	SW8081A	
Endosulfan sulfate		ND	0.05	ppb	SW8081A	
Hexachlorobenzene		ND	0.5	ppb	SW8081A	
Lead		8.2	0.5	ppb	E200.8	
Heptachlor		ND	0.01	ppb	SW8081A	
Endrin ketone		ND	0.05	ppb	SW8081A	
Endrin aldehyde		ND	0.05	ppb	SW8081A	
Specific Conductivity		106	10	µmhos/cm @ 25°C	SM2510B	
TPH-Motor Oil (C18-C35)		ND	250	ppb	SW8015B	

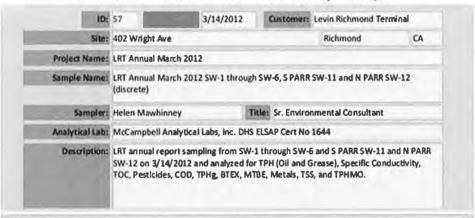
100	44 Event Date: 2/	/7/2012	Levin Richmond Te	rminal
Sites	402 Wright Ave		Richmond	CA
Project Name:	LRT 2nd Annual Stormwa	ter		
Sample Name:	LRT Second Annual Storm	water Sampling Event 2,	/7/12 SW-2, SW-4 - SW	-6 (Discrete
Sampler:	Helen Mawhinney	Title: Sr. Env	Ironmental Consultant	
Analytical Lab:	McCampbell Analytical La	bs, Inc. DHS ELSAP Cert	No 1644	
Description:	Samples taken from SW-2 Alkali Metals, COD, TPHg, Diesel, TPH mo, and TSS.	Control of the Contro		

Sample Location: SW-6	Sample Time:	2/7/2012	12:01:00	PM	
Analyte		Result	Limit	UOM	Method
Lead		9.8	0.5	ppb	E200.8
Vanadium		5.6	0.5	ppb	E200.8
Total Suspended Solids		12.6	1	ppm	SM2540D
Zinc		160	5	ppb	E200.8
pH		7.59	0.05	pH units @ *C	SM4500H+6
Specific Conductivity		105	10	µmhos/cm @ 25°C	SM25108
Organic Carbon, Total		3.9	0.3	ppm	E415.3
Dieldrin		ND	0.01	ррь	SW8081A
TPH-Mator Oil (C18-C36)		ND	250	ppb	SW8015B
TPH-Diesel (C10-C23)		80	50	ppb	SW8015B
b-BHC		ND	0.005	ррь	SW8081A
Endosulfan t		ND	0.02	ppb	SW8081A
p,p-DDT		ND	0.01	ppb	5W8081A
p,p-DDE		ND	0.01	ppb	SW8081A
p,p-DOD		ND	0.01	ppb	SW8081A
g-Chlordane		ND	0.05	ppb	SW8081A
a-Chlordane		ND	0.05	ppb	SW8081A
Endosulfan sulfate		ND	0.05	ppb	SW8081A
g-BHC		ND	0.02	ррь	SW8081A
d-BHC		ND	0.005	ppb	SW8081A
Aldrin		ND	0.005	ppb	SW8081A
Hexane Extractable Material w/o Silica	Gel Cleanup	ND	5	ppm	E1664A
Toluene		ND	0.5	ppb	SW8260B
Xylenes, Total		ND	0.5	ррь	SW8260B
Copper		21	0.5	ppb	E200.8
Endosulfan ti		ND	0.02	ppb	SW8081A
Chlordane (Technical)		ND	0.1	ррь	SW8081A
Iron		770	50	ррь	E200.7
Methyl Tert-Butyl Ether		ND	0.5	ррь	SW8260B
a-BHC		ND	0.01	ppb	SW8081A

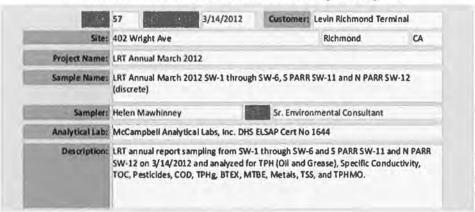
Laboratory Analytical Report 44 Event Date: 2/7/2012 Levin Richmond Terminal



Sample Location: SW-6	Sample Time:	2/7/2012 12:01:00 PM				
Analyte		Result	Limit	NOM	Method	
Endrin		ND	0.01	ppb	SW8081A	
Ethylbenzene		ND	0.5	ррь	SW8260B	
Benzene		ND	0.5	ppb	SW8260B	
Chemical Oxygen Demand		ND	10	ppm	SM5220D	
Aluminum		360	50	ppb	E200,7	
Heptachlor epoxide		ND	0.01	ppb	SW8081A	
Endrin aldehyde		ND	0.05	ppb	SW8081A	
Endrin ketone		ND	0.05	ррь	SW8081A	
Petroleum Hydrocarbons - Gaso	line, Total	ND	50	ppb	SW82608	
Heptachlor		ND	0.01	ppb	SW8081A	
Toxaphene		ND	0.5	ppb	SW8081A	
Hexachlorobenzene		ND	0.5	ppb	SW8081A	
Hexachloro cy do pentadien e		ND	1	ppb	SW8081A	
Methoxychlor		ND	0.1	ppb	SW8081A	



Sample Location: SW-1	Sample Time:	3/14/201	2 7:40:00	AM	
Analyte		Result	Limit	UOM	Method
Organic Carbon, Total		1.7	0.3	ppm	E415.3
Methoxychlor		ND	0.1	ppb	SW8081A/8104
Hexachlorocyclopentadiene		ND	1	ppb	SW8081A/810
Ethylbenzene		ND	0.5	ppb	SW8260B
Hexachlorobenzene		ND	0.5	ppb	SW8081A/8102
TPH-Diesel (C10-C23)		100	50	ppb	SW8015B
TPH-Motor Oil (C18-C36)		340	250	ppb	SW8015B
Toxaphene		ND	0.5	ppb	SW8081A/8105
Vanadium		2.5	0.5	ppb	E200.8
Arodor 1242		ND	0.5	ppb	SW8081A/8109
Zinc		140	5	ppb	E200.8
Benzene		ND	0.5	ppb	SW8260B
Arodor 1016		ND	0.5	ppb	SW8081A/8106
Copper		7.0	0.5	ppb	E200.8
Arodor1232		ND	0.5	ppb	SW8081A/8108
Heptachlor epoxide		ND	0.01	ppb	SW8081A/810
Arodor1248		ND	0.5	ppb	SW8081A/8110
Specific Conductivity		38.8	10	µmhos/cm @ 25°C	SM25108
Aroclor 1254		ND	0.5	ppb	SW8081A/811
Aroclor1260		ND	0.5	ppb	SW8081A/8112
PCBs, total		ND	0.5	ppb	SW8081A/8113
Iron		750	20	ppb	E200.7
Aluminum		250	50	ppb	E200.7
Arodor1221		ND	0.5	ppb	SW8081A/8107
p,p-DDT		ND	0.01	ррь	SW8081A/8092
а-ВНС		ND	0.01	ppb	SW8081A/8083
b-BHC		ND	0.005	ppb	SW8081A/8084
Total Suspended Solids		23.4	1	ppm	SM2540D
d-BHC		ND	0.005	ppb	SW8081A/8085
g-BHC		ND	0.02	ppb	SW8081A/8086



Sample Location: SW-1	Sample Time:	3/14/201	2 7:40:00 AM		
Analyte		Result	Limit	UOM	Method
Chemical Oxygen Demand		22	10	ppm	SM5220D
a-Chlordane		ND	0.05	ppb	SW8081A/8088
g-Chlordane		ND	0.05	ppb	SW8081A/8089
p,p-DDD		NO	0.01	ppb	SW8081A/8090
Lead		12	0.5	ppb	E200.8
p,p-DDE		ND	0.01	ppb	SW8081A/8091
Aldrin		ND	0.005	ppb	SW8081A/8082
Dieldrin		ND	0.01	ppb	SW8081A/8093
Petroleum Hydrocarbons - Gasoli	ne, Total	ND	50	ppb	SW8260B
Heptachlor		ND	0.01	ppb	SW8081A/8100
Endrin ketone		ND	0.05	ppb	SW8081A/8099
Endrin aldehyde		ND	0.05	ppb	SW8081A/8098
Endrin		ND	0.01	ppb	SW8081A/8097
Toluene		ND	0.5	ppb	SW8260B
Hexane Extractable Material w/S	ilica Gel Cleanup	ND	5	ppm	E1664A
Xylenes, Total		ND	0.5	ppb	SW8260B
Endosulfan I		ND	0.02	ppb	SW8081A/8094
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B
Endosulfan sulfate		ND	0.05	ppb	SW8081A/8096
Endosulfan II		ND	0.02	ppb	SW8081A/8095
Chlordane (Technical)		ND	0.1	ppb	SW8081A/8087

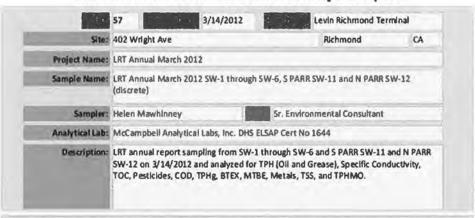
SITES	402 Wright Ave		Richmond	CA
Perfect Manne	LRT Annual March 2012			_
Project Mame:	LKI Annual March 2012			_
Sample Name:	LRT Annual March 2012 St (discrete)	W-1 through SW-6	, S PARR SW-11 and N PARR	SW-12
Sampler:	Helen Mawhinney	Title: Se	r. Environmental Consultant	
Analytical Lab:	McCampbell Analytical Lal	bs, Inc. DHS ELSAP	Cert No 1644	
Description:	 P. Sillian and John Soft Control Processing Print Print Print 		ugh SW-6 and S PARR SW-11 Oll and Grease), Specific Cor	

Sample Location: SW-2	Sample Time:	3/14/201	2 7:10:00 AM		
Analyte	-	Result	Limit	UOM	Method
Heptachlor epoxide		ND	0.01	ppb	SW8081A/8101
TPH-Motor Oil (C18-C36)		ND	250	ppb	SW8015B
TPH-Diesel (C10-C23)		58	50	ррь	SW8015B
Organic Carbon, Total		1.5	0.3	ppm	E415.3
Total Suspended Solids		191	1	ppm	SM2540D
g-BHC		ND	0.02	ppb	SW8081A/8086
Arodor1254		ND	0.5	ррь	SW8081A/8111
Hexachlorobenzene		ND	0.5	ppb	SW8081A/8102
Methoxychlor		ND	0.1	ppb	SW8081A/8104
Toxaphene		ND	0.5	ppb	SW8081A/8105
Arodor1016		ND	0.5	ppb	SW8081A/8106
Arodor1221		ND	0.5	ppb	SW8081A/8107
Aroclor1232		ND	0.5	ppb	SW8081A/8108
Toluene		ND	0.5	ppb	SW8260B
Aroclor 1248		ND	0.5	ppb	SW8081A/8110
Hexachlorocy do pentadien e		ND	1	ррь	SW8081A/8103
Arador 1260		ND	0.5	ppb	SW8081A/8112
PCBs, total		ND	0.5	ppb	SW8081A/8113
Aluminum		2400	50	ppb	E200.7
Chemical Oxygen Demand		210	10	ppm	SM5220D
Petroleum Hydrocarbons - Gasoline, 1	otal	ND	50	ppb	SW8260B
Benzene		ND	0.5	ppb	SW8260B
Ethylbenzene		ND	0.5	ppb	SW82608
Arodor 1242		ND	0.5	ppb	SW8081A/8109
p,p-DDE		ND	0.01	ppb	SW8081A/8091
d-BHC		ND	0.005	ppb	SW8081A/8085
b-BHC		ND	0.005	ppb	SW8081A/8084
a-BHC		ND	0.01	ppb	SW8081A/8083
Aldrin		ND	0.005	ppb	SW8081A/8082
Iron		5600	20	ppb	E200.7

Laboratory Analytical Report 57 Event Date: 3/14/2012 Customer: Levin Richmond Terminal

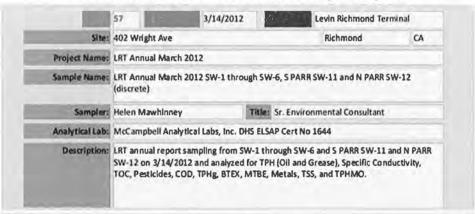
Name of Street	57	3/14/2012	(SECONDINA)	THE WEST OF SERVICES	
Site:	402 Wright Ave			Richmond	CA
Project Name:	LRT Annual March 201	2			
Sample Name:	LRT Annual March 201 (discrete)	2 SW-1 through	SW-6, S PARR SV	V-11 and N PARR	SW-12
Sampler:	Helen Mawhinney	TH	le: Sr. Environm	ental Consultant	
Analytical Lab:	McCampbell Analytica	l Labs, Inc. DHS E	LSAP Cert No 16	44	
Description:	LRT annual report sam SW-12 on 3/14/2012 a TOC, Pesticides, COD,	ind analyzed for	TPH (Oil and Gre	ase), Specific Con	

Sample Location: SW-2	Sample Time:	3/14/201	AM		
Analyte		Result	Limit	UOM	Method
Chlordane (Technical)		ND	0.1	ppb	SW8081A/8087
a-Chlordane		ND	0.05	ppb	SW8081A/8088
Specific Conductivity		76.0	10	µmhos/cm @ 25°C	SM2510B
p,p-DDD		ND	0.01	ppb	SW8081A/8090
Endrin ketone		ND	0.05	ppb	SW8081A/8099
p,p-ODT		ND	0.01	ppb	SW8081A/8092
Dieldrin		ND	0.01	ppb	SW8081A/8093
Endosulfan i		ND	0.02	ppb	SW8081A/8094
Endosulfan II		ND	0.02	ppb	SW8081A/8095
Endosulfan sulfate		ND	0.05	ppb	SW8081A/8096
Endrin		ND	0.01	ppb	SW8081A/8097
Heptachlor		ND	0.01	ppb	SW8081A/8100
g-Chlordane		ND	0.05	ppb	SW8081A/8089
Endrin aldehyde		ND	0.05	ppb	SW8081A/8098
Hexane Extractable Material w/ Si	lica Gel Cleanup	ND	5	ppm	E1664A
Copper		9.5	0.5	ppb	E200.8
Lead		12	0.5	ppb	E200.8
Vanadlum		24	0.5	ppb	E200.8
Zinc		100	5	ppb	E200.8
Xylenes, Total		ND	0.5	ppb	SW8260B
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B

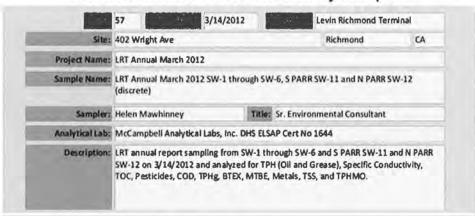


Sample Location: SW-3	Sample Time:	3/14/201	2 2:10:00 PM		
Analyt	9	Result	Limit	UOM	Method
Zinc		260	5	ppb	E200.8
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B
TPH-Diesel (C10-C23)		ND	50	ppb	SW8015B
Hexane Extractable Material w/	Silica Gel Cleanup	ND	5	ppm	E1664A
PCBs, total		ND	0.5	ppb	SW8081A/8113
Arodor1260		ND	0.5	ppb	SW8081A/8112
Arodor1254		ND	0.5	ppb	SW8081A/8111
Arodor 1248		ND	0.5	ppb	SW8081A/8110
Copper		18	0.5	ppb	E200,8
Lead		15	0.5	ppb	E200.8
Iron		1900	20	ppb	E200.7
Vanadium		10	0.5	ppb	E200.8
Arador 1232		ND	0.5	ppb	SW8081A/8108
Xylenes, Total		ND	0.5	ppb	SW82608
Arodor1242		ND	0.5	ppb	SW8081A/8109
TPH-Motor Oil (C18-C36)		ND	250	ppb	SW8015B
Heptachlor epoxide		ND	0.01	ppb	SW8081A/8101
Hexachlorobenzene		ND	0.5	ppb	SW8081A/8102
Hexachlorocy dopentadiene		ND	1	ppb	5W8081A/8103
Methoxychlor		ND	0.1	ppb	SW8081A/8104
Toxaphene		ND	0.5	ppb	SW8081A/8105
Arodor1016		ND	0.5	ppb	SW8081A/8106
Arodor 1221		ND	0.5	ppb	SW8081A/8107
Organic Carbon, Total		1.6	0.3	ppm	E415.3
Aluminum		320	50	ppb	E200.7
g-Chlordane		ND	0.05	ppb	SW8081A/8089
p,p-DDE		ND	0.01	ppb	SW8081A/8091
o,p-DOT		ND	0.01	ppb	SW8081A/8092
Toluene		ND	0.5	ppb	SW8260B
Dieldrin		ND	0.01	ppb	5W8081A/8093

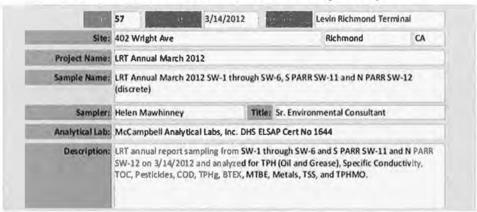
Laboratory Analytical Report 57 Event Date: 3/14/2012 Customer: Levin Richmond Terminal



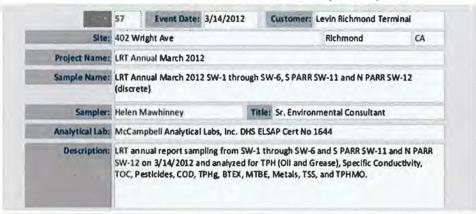
Sample Location: SW-3	Sample Time:	3/14/201	2 2:10:00	PM	
Analyt	2	Result	Limit	UOM	Method
Chlordane (Technical)		ND	0.1	ppb	SW8081A/8087
Endosulfan II		ND	0.02	ppb	SW8081A/8095
a-Chlordane		ND	0.05	ppb	SW8081A/8088
Aldrin		ND	0.005	ppb	SW8081A/8082
Heptachlor		ND	0.01	ppb	SW8081A/8100
Endrin ketone		ND	0.05	ppb	SW8081A/8099
Endosulfan sulfate		ND	0.05	ppb	SW8081A/8096
Endrin		ND	0.01	ppb	SW8081A/8097
Endrin aldehyde		ND	0.05	ppb	SW8081A/8098
Endosulfan I		ND	0.02	ppb	SW8081A/8094
Petroleum Hydrocarbons - Gaso	line, Total	ND	50	ppb	SW8260B
d-BHC		ND	0.005	ppb	SW8081A/8085
а-ВНС		ND	0.01	ppb	SW8081A/8083
Ethylbenzene		ND	0.5	ppb	SW8260B
ь-вис		ND	0.005	ppb	SW8081A/8084
Chemical Oxygen Demand		43	10	ppm	SM5220D
Total Suspended Solids		153	1	ppm	SM2540D
g-BHC		ND	0.02	ppb	SW8081A/8086
p,p-DOD		ND	0.01	ppb	SW8081A/8090
Specific Conductivity		178	10	μmhos/cm @ 25°C	SM2510B
Benzene		ND	0.5	ppb	SW8260B



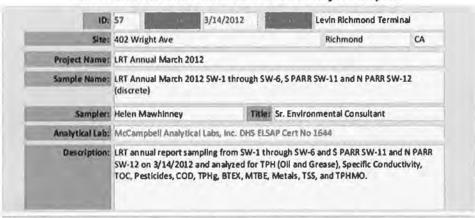
Sample Location: SW-4	Sample Time:	3/14/201	2 1:05:00 PM		
Analyt	2	Result	Limit	UOM	Method
p,p-DDD		ND	0.01	ppb	SW8081A/8090
g-Chlordane		ND	0.05	ppb	SW8081A/8089
g-BHC		ND	0.02	ppb	SW8081A/8086
a-Chlordane		ND	0.05	ppb	SW8081A/8088
Chlordane (Technical)		ND	0.1	ppb	SW8081A/8087
Arodor 1260		ND	0.5	ppb	SW8081A/8112
Arodor1254		ND	0.5	ppb	SW8081A/8111
p.p-DDE		ND	0.01	ppb	SW8081A/8091
Endrin aldehyde		ND	0.05	ppb	SW8081A/8098
PCBs, total		ND	0.5	ppb	SW8081A/8113
Vanadium		5.5	0.5	ppb	E200.8
Arodor 1248		ND	0.5	ppb	SW8081A/8110
Arodor 1242		ND	0.5	ppb	SW8081A/8109
Arodor 1232		ND	0.5	ppb	SW8081A/8108
Arodor1221		ND	0.5	ppb	SW8081A/8107
Aroclor 1016		ND	0.5	ppb	SW8081A/8106
Toxaphene		ND	0.5	ppb	5W8081A/8109
Methoxychlor		ND	0.1	ppb	SW8081A/8104
Endosulfan sulfate		ND	0.05	ppb	SW8081A/8096
Hexachlorobenzene		ND	0.5	ppb	SW8081A/8102
p,p-DDT		ND	0.01	ppb	SW8081A/8092
d-BHC		ND	0.005	ppb	SW8081A/8085
Heptachlor		ND	0.01	ppb	SW8081A/8100
Endrin ketone		ND	0.05	ppb	SW8081A/8099
Endrin		ND	0.01	ppb	SW8081A/8097
Heptachlor epoxide		ND	0.01	ppb	SW8081A/8101
Endosulfan II		ND	0.02	ppb	SW8081A/8095
Endosulfan I		ND	0.02	ppb	SW8081A/8094
Dieldrin		ND	0.01	ppb	SW8081A/8093
Hexachlorocyclopentadiene		ND	1	ppb	SW8081A/8103



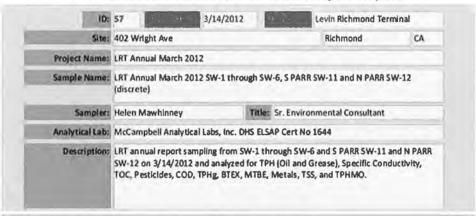
Sample Location: SW-4	Sample Time:	3/14/201	2012 1:05:00 PM				
Analyte		Result	Limit	UOM	Method		
TPH-Motor Oil (C18-C36)		ND	250	ppb	SW8015B		
Total Suspended Solids		29.0	1	ppm	SM2540D		
Petroleum Hydrocarbons - Gasol	ine, Total	ND	50	ppb	SW8260B		
Chemical Oxygen Demand		12	10	ppm	SM5220D		
Benzene		ND	0.5	ppb	SW8260B		
Ethylbenzene		ND	0.5	ppb	SW82608		
Toluene		ND	0.5	ppb	SW8260B		
Xylenes, Total		ND	0.5	ppb	SW8260B		
Specific Conductivity		76.5	10	µmhos/cm @ 25°C	SM2510B		
Hexane Extractable Material w/	Silica Gel Cleanup	ND	5	ppm	E1664A		
b-BHC		ND	0.005	ppb	SW8081A/8084		
TPH-Diesel (C10-C23)		ND	50	ppb	SW8015B		
Organic Carbon, Total		1.6	0.3	ppm	E415.3		
Copper		22	0.5	ppb	E200.8		
Methyl Tert-Butyl Ether		ND.	0.5	ppb	SW8260B		
Aluminum		600	50	ppb	E200.7		
Lead		17	0.5	ppb	E200.8		
Iron		2300	20	ррь	E200.7		
Zinc		77	5	ppb	E200.8		
Aldrin		ND	0.005	ppb	SW8081A/808		
a-BHC		ND	0.01	dad	SW8081A/808		



Sample Location: SW-5	Sample Time:	3/14/201	3/14/2012 1:15:00 PM				
Analyte		Result	Limit	UOM	Method		
Endrin ketone		ND	0.05	ррь	SW8081A/8099		
Toxaphene		ND	0.5	ppb	SW8081A/8105		
Hexachlorocydopentadiene		ND	1	ppb	SW8081A/8103		
Hexachlorobenzene		ND	0.5	ppb	SW8081A/8102		
Heptachlor		ND	0.01	ррь	SW8081A/8100		
Endrin aldehyde		ND	0.05	ppb	SW8081A/8098		
Endrín		ND	0.01	ррь	SW8081A/8097		
Endosulfan sulfate		ND	0.05	ррь	SW8081A/8096		
Heptachlor epoxide		ND	0.01	ppb	SW8081A/8101		
Arodor1221		ND	0.5	ppb	SW8081A/8107		
Arodor1232		ND	0.5	ppb	SW8081A/8108		
Arodor 1242		ND	0.5	ppb	SW8081A/8109		
Arodor1248		ND	0.5	ррь	SW8081A/8110		
Arodor12S4		ND	0.5	ppb	SW8081A/8111		
Arodor1260		ND	0.5	ppb	SW8081A/8112		
PCBs, total		ND	0.5	ppb	SW8081A/8113		
Endosulfan II		ND	0.02	ppb	SW8081A/8095		
Methoxychlor		ND	0.1	ppb	SW8081A/8104		
Aluminum		380	50	ppb	E200.7		
Hexane Extractable Material w/	Silica Gel Cleanup	ND	5	ppm	E1664A		
TPH-Diesel (C10-C23)		ND	50	ppb	SW80158		
Lead		13	0.5	ppb	E200.8		
Vanadium		4.0	0.5	ppb	E200.8		
Zinc		61	5	ppb	E200.8		
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW82608		
Kylenes, Total		ND	0.5	ppb	SW8260B		
Endosulfan I		ND	0.02	ppb	SW8081A/8094		
Arodor 1016		ND	0.5	ppb	SW8081A/8106		
Iran		1300	20	ppb	E200.7		
Specific Conductivity		34.8	10	µmhos/cm @ 25°C	SM2510B		



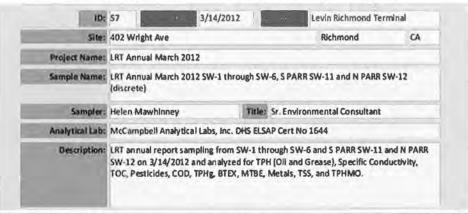
Sample Location: SW-S	Sample Time:	3/14/201	2 1:15:00 PM		
Analyte		Result	Limit	UOM	Method
Petroleum Hydrocarbons - Gasc	oline, Total	ND	50	ppb	SW8260B
Copper		25	0.5	ppb	E200.8
Benzene		ND	0.5	ppb	SW8260B
Chemical Oxygen Demand		12	10	ppm	SM5220D
TPH-Motor Oil (C18-C36)		370	250	ppb	SW8015B
Total Suspended Solids		26.0	1	ppm	SM2540D
Chlordane		ND	0.05	ppb	SW8081A/8089
a-Chlordane		ND	0.05	ppb	SW8081A/8088
Chlordane (Technical)		ND	0.1	ppb	SW8081A/8087
Organic Carbon, Total		2.2	0.3	ppm	E415.3
Ethylbenzene		ND	0.5	ppb	SW8260B
p, p-DDD		ND	0.01	ppb	SW8081A/8090
d-BHC		ND	0.005	ppb	SW8081A/8085
g-BHC		ND	0.02	ppb	SW8081A/8086
p,p-DDT		ND	0.01	ppb	SW8081A/8092
Dieldrin		ND	0.01	ppb	SW8081A/8093
b-BHC		ND	0.005	ppb	SW8081A/8084
a-BHC		ND	0.01	ppb	SW8081A/8083
Aldrin		ND	0.005	ppb	SW8081A/8082
Toluene		ND	0.5	ppb	SW8260B
p, p-DDE		ND	0.01	ppb	SW8081A/8091



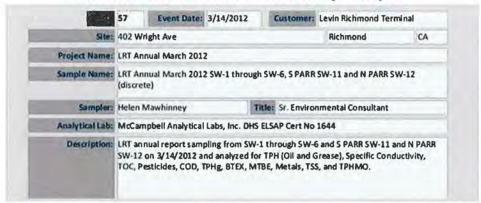
Sample Location: SW-6	Sample Time:	3/14/2012 1:25:00 PM				
Analyte	-	Result	Limit	UOM	Method	
Copper		52	0.5	ppb	E200.8	
Vanadium		3.1	0.5	ppb	E200.8	
Zinc		78	5	ppb	E200.8	
Specific Conductivity		42.6	10	µmhos/cm @ 25°C	SM2510B	
PCBs, total		ND	0.5	ppb	SW8081A/8113	
Lead		27	0.5	ppb	E200.8	
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW82608	
Xylenes, Total		ND	0.5	ppb	SW8260B	
Toluene		ND	0.5	ppb	SW8260B	
Ethylbenzene		ND	0.5	ppb	SW8260B	
Benzene		ND	0.5	ppb	SW82608	
Aluminum		190	50	ppb	E200.7	
Arodor1254		ND	0.5	ppb	SW8081A/8111	
Chemical Oxygen Demand		ND	10	ppm	SM5220D	
Arodor1248		ND	0.5	ppb	SW8081A/8110	
Hexane Extractable Material w/ Sill	ca Gel Cleanup	ND	5	ppm	E1664A	
Petroleum Hydrocarbons - Gasoline	, Total	ND	50	ppb	SW8260B	
Iron		360	20	ppb	E200.7	
ь-внс		ND	0.005	ppb	SW8081A/8084	
Dieldrin		ND	0.01	ppb	SW8081A/8093	
p,p-DDT		0.012	0.01	ppb	5W8081A/8092	
p,p-DDE		0.012	0.01	ppb	SW8081A/8091	
p,p-DDD		ND.	0.01	ppb	SW8081A/8090	
g-Chlordane		ND	0.05	ppb	SW8081A/8089	
Chlordane (Technical)		ND	0.1	ppb	SW8081A/8087	
Endosulfan I		ND	0.02	ppb	SW8081A/8094	
d-BHC		ND	0.005	ppb	SW8081A/8085	
a-Chlordane		ND	0.05	ppb	SW8081A/8088	
a-BHC		ND	0.01	ppb	SW8081A/8083	
Aldrin		ND	0.005	ppb	5W8081A/8082	

Event Date: 3/14/2012

Customer: Levin Richmond Terminal

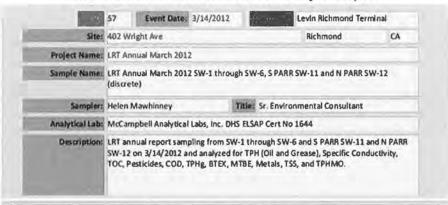


Sample Location: SW-6 Sample Time: Analyte		3/14/2012 1:25:00 PM			
		Result	Limit	DOM	Method
Organic Carbon, Total		1.8	0,3	ppm	E415.3
TPH-Diesel (C10-C23)		ND	50	ppb	SW8015B
TPH-Motor Oil (C18-C36)		ND	250	ppb	SW8015B
Total Suspended Solids		7.00	1	ppm	SM2540D
Arodor 1260		ND	0.5	ppb	SW8081A/8112
Arodor1232		ND	0.5	ppb	SW8081A/8108
g-BHC		ND	0.02	ppb	SW8081A/8086
Arodor 1242		ND	0.5	ppb	SW8081A/8109
Endosulfan II		ND	0.02	ppb	SW8081A/8095
Arodor1221		ND	0.5	ppb	SW8081A/8107
Arodor1016		ND	0.5	ppb	SW8081A/8106
Toxaphene		ND	0.5	ppb	SW8081A/8109
Methoxychlor		ND	0.1	ppb	SW8081A/8104
Hexachloro cyclo pentadiene		ND	1	ppb	SW8081A/8103
Endrin		ND	0.01	ppb	SW8081A/8097
Hexachiorobenzene		ND	0.5	ppb	SW8081A/8102
Endosulfan sulfate		ND	0.05	ppb	SW8081A/8096
Endrin aldehyde		ND	0.05	ppb	SW8081A/8098
Endrin ketone		ND	0.05	ppb	SW8081A/8099
Heptachlor		ND	0.01	ppb	SW8081A/8100
Heptachlor epoxide		ND	0.01	ppb	SW8081A/810

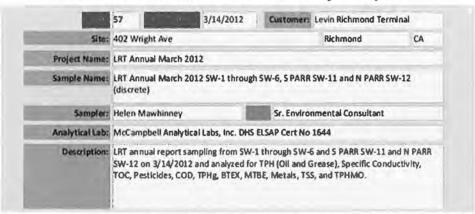


Sample Location: S PARR SW-11 Sample To	me: 3/14/201	2 2:45:00		
Analyte	Result	Limit	UOM	Method
iron	1200	20	ррь	E200.7
TPH-Diesel (C10-C23)	150	50	ppb	SW8015B
Total Suspended Solids	165	1	ppm	SM2540D
d-BHC	ND	0.005	ррь	SW8081A/8085
g-BHC	ND	0.02	ppb	SW8081A/8086
Benzene	ND	0.5	ppb	SW8260B
Petroleum Hydrocarbons - Gasoline, Total	ND	50	ppb	SW8260B
Xylenes, Total	ND	0.5	ppb	SW8260B
Hexane Extractable Material w/ Silica Gel Cleanup	ND	5	ppm	E1664A
Aluminum	600	50	ppb	E200.7
a-Chlordane	ND	0.05	ppb	SW8081A/8088
Chlordane (Technical)	ND	0.1	ppb	SW8081A/8087
g-Chlordane	ND	0.05	ppb	SW8081A/8089
Toluene	ND	0.5	ppb	SW8260B
TPH-Motor Oil (C18-C36)	460	250	ppb	SW8015B
Methyl Tert-Butyl Ether	ND	0.5	ppb	SW8260B
Organic Carbon, Total	2.5	0.3	ppm	E415.3
Specific Conductivity	159	10	µmhos/cm @ 25°C	SM2510B
Copper	11	0.5	ppb	E200.8
Lead	5.0	0.5	ppb	E200.8
Vanadium	66	0.5	ppb	E200.8
Zinc	46	5	ррь	E200.8
b-BHC	ND	0.005	ppb	SW8081A/8084
a-BHC	ND	0.01	ppb	SW8081A/8083
Aldrin	ND	0.005	ppb	SW8081A/8082
Ethylbenzene	ND	0.5	ppb	SW82608
Arodor 1221	ND	0.5	ppb	SW8081A/8107
Endrin	ND	0.01	ppb	SW8081A/8097
Endrin aldehyde	ND	0.05	ppb	SW8081A/8098
Endrin ketone	ND	0.05	ppb	SW8081A/8099

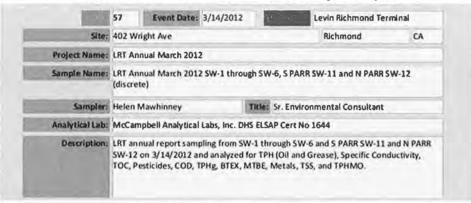
ID: 57 Event Date: 3/14/2012 Customer: Levin Richmond Terminal



Sample Location: S PARR SW-11	Sample Time:	3/14/201	2 2:45:00 PM			
Analyte		Result	Limit	NOM	Method	
Heptachlor		ND	0.01	ppb	SW8081A/8100	
Hexachloro benzene		ND	0.5	ppb	SW8081A/8102	
Methoxychlor		ND	0.1	ppb	5W8081A/8104	
Endosulfan sulfate		ND	0.05	ppb	SW8081A/8096	
Arodor1016		ND	0.5	ppb	SW8081A/8106	
Heptachlor epoxide		ND	0.01	ppb	SW8081A/8101	
Arodor1232		ND	0.5	ppb	SW8081A/8108	
Arador1242		ND	0,5	ррь	SW8081A/8109	
Arodor1248		ND	0.5	ppb	SW8081A/8110	
Arodor1254		ND	0.5	ppb	SW8081A/8111	
Arodor1260		ND	0.5	ppb	SW8081A/8112	
PCBs, total		ND	0.5	ppb	SW8081A/811	
Toxaphene		ND	0.5	ppb	SW8081A/8105	
Endosulfan I		ND	0.02	ppb	SW8081A/8094	
p,p-DOD		ND	0.01	ppb	SW8081A/8090	
Chemical Oxygen Demand		200	10	ppm	SM5220D	
p,p-DDE		ND	0.01	ppb	SW8081A/8091	
Hexachloro cyclopentadiene		ND	1	ppb	SW8081A/8103	
p,p-DDT		ND	0.01	ppb	SW8081A/8092	
Dieldrin		ND	0.01	ppb	SW8081A/8093	
Endosulfan II		ND	0.02	ppb	SW8081A/8099	



Sample Location: N PARR SW-12	Sample Time:	3/14/2012 3:10:00 PM				
Analyte		Besult	Limit	UOM	Method	
Hexachlorobenzene		ND	0.5	ppb	SW8081A/8102	
Hexachloro cyclopentadiene		ND	1	ppb	SW8081A/8103	
Endrin		ND	0.01	ppb	SW8081A/8097	
Zinc		57	5	ppb	E200.8	
Toxaphene		ND	0.5	ppb	SW8081A/8105	
Vanadium		6.0	0.5	ppb	E200.8	
Heptachlor epoxide		ND	0.01	ppb	SW8081A/8101	
Heptachlor		ND	0.01	ppb	SW8081A/8100	
Endrin ketone		ND	0.05	ppb	SW8081A/8099	
Iron		740	20	ppb	E200.7	
Endrin aldehyde		ND	0.05	ppb	SW8081A/8098	
Endosulfan sulfate		ND	0.05	ppb	SW8081A/8096	
Endosulfan II		ND	0.02	ppb	SW8081A/8095	
Arodor 1016		ND	0.5	ppb	SW8081A/8106	
Dieldrin		ND	0.01	ppb	SW8081A/8093	
Arodor1248		ND	0.5	ppb	SW8081A/8110	
p,p-DDT		ND	0.01	ррь	SW8081A/8092	
p,p-DDE		ND	0.01	ppb	SW8081A/8091	
p,p-DDD		ND	0.01	ppb	SW8081A/8090	
g-Chlordane		ND	0.05	ppb	SW8081A/8089	
a-Chlordane		ND	0.05	ppb	SW8081A/8088	
Chlordane (Technical)		ND	0.1	ppb	SW8081A/8087	
Endosulfan I		ND	0.02	ppb	SW8081A/8094	
PCBs, total		ND	0.5	ppb	SW8081A/8113	
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B	
Xylenes, Total		ND	0.5	ppb	SW8260B	
Toluene		ND	0.5	ppb	SW8260B	
Ethylbenzene		ND	0.5	ppb	SW8260B	
Benzene		ND	0.5	ppb	SW8260B	
Specific Conductivity		64.4	10	µmhos/cm@25°C	SM2510B	



Sample Location: N PARR SW-12 Sample T	ime: 3/14/201	2 3:10:00 PM			
Analyte	Result	Limit	UOM	Method	
TPH-Diesel (C10-C23)	ND	50	ppb	SW8015B	
TPH-Motor Oil (C18-C36)	ND	250	ppb	5W8015B	
Methoxychlor	ND	0.1	ppb	SW8081A/8104	
Chemical Oxygen Demand	22	10	ppm	SM5220D	
g-BHC	ND	0.02	ppb	SW8081A/8086	
Arodor1221	ND	0.5	ppb	SW8081A/8107	
Lead	7.3	0.5	ppb	E200.8	
Petroleum Hydrocarbons - Gasoline, Total	ND	50	ppb	SW82608	
Arodor 1260	ND	0.5	ppb	SW8081A/8112	
Arodor1254	ND	0.5	ppb	SW8081A/8111	
Organic Carbon, Total	4.5	0.3	ppm	E415.3	
Arodor 1242	ND	0.5	ppb	SW8081A/8109	
Total Suspended Solids	11.4	1	ppm	SM2540D	
Hexane Extractable Material w/ Silica Gel Cleanup	ND	5	ppm	E1664A	
Arodor1232	ND	0.5	ppb	SW8081A/8108	
Copper	7.8	0.5	ppb	E200.8	
Aluminum	350	50	ppb	E200.7	
b-BHC	ND	0.005	ppb	SW8081A/8084	
a-BHC	ND	0.01	ppb	SW8081A/8083	
Aldrin	ND	0.005	ppb	SW8081A/8082	
d-BHC	ND	0.005	ppb	SW8081A/8089	

Attachment C - Analytical Results Continued

Discharge To Sanitary Sewer

Stormwater Systems Cleanout Sampling Events

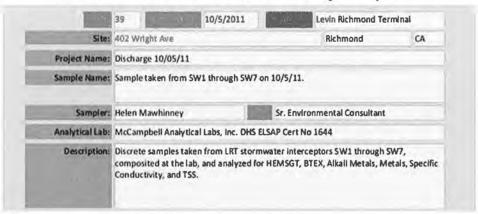
October 5, 2011

November 29, 2011

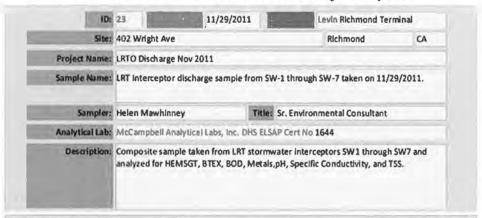
January 25, 2012

March 29, 2012

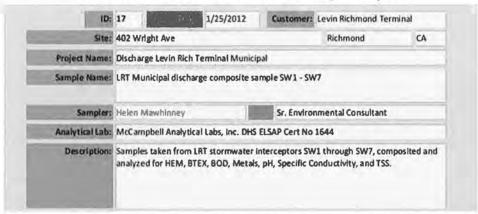
April 5, 2012



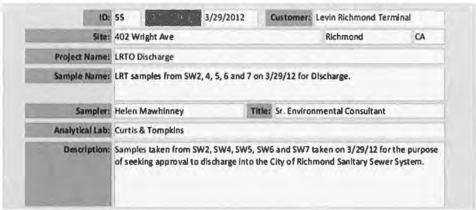
Sample Location: SW-1 - SW-7 Sample Time:		10/5/2		
Analyte	Result	Limit	UOM	Method
Specific Conductivity	594	10	µmhos/cm @ 25°C	E120.1
Alumínum	4900	50	ppb	£200.7
Iron	9200	50	ppb	E200.7
Copper	42	0.5	ppb	E200.8
Lead	61	0.5	ррь	E200.8
Nickel	17	0.5	ppb	E200.8
Xylenes, Total	ND	0.5	ppb	E624
Zinc	390	5	ppb	E200.8
Total Suspended Solids	170	1	ppm	SM2540D
Vanadium	28	0.5	ppb	£200.8
Toluene	ND	0.5	ppb	E624
Benzene	ND	0.5	ppb	E624
Hexane Extractable Material w/ Silica Gel Cleanup	ND	5	ppm	E1664A
Ethylbenzene	ND	0.5	ppb	E624



Sample Location: SW1 - SW7 Sample Time:		11/29/2	011	
Analyte	Result	Limit	UOM	Method
Toluene	ND	0.5	ppb	E602
Total Suspended Solids	47.5	1	ppm	SM2540D
Biological Oxygen Demand	ND	4	ppm	SM52108
Nickel	4.9	0.5	ppb	E200.8
Соррег	24	0.5	ppb	E200,8
Ethylbenzene	ND	0.5	ррь	E602
Lead	28	0.1	ppm	SW6020
Specific Conductivity	3950	10	µmhos/cm @ 25°C	E120.1
Zinc	170	5	ppb	E200.8
Benzene	ND	0.5	ppb	E602
Hexane Extractable Material w/ Silica Gel Cleanup	ND	5	ppm	E1664A
Toluene	ND	0.5	ppb	E602
pH	7.28	0.05	pH units @ °C	SM4S00H+8



Sample Location: SW1-SW7 Sample Time:		1/25/20)12		
Analyte	Result	Limit	UOM	Method	
Xylenes, Total	ND	0.5	ppb	E602	
Copper	17	0.5	ppb	E200.8	
Nickel	4.9	0.5	ppb	E200.8	
Zinc	170	5	ppb	E200.8	
pH	7.59	0.05	pH units @ °C	SM4500H+8	
Total Suspended Solids	43	1	ppm	SM2540D	
Specific Conductivity	614	10	µmhos/cm@25*C	E120.1	
Ethylbenzene	ND	0.5	ppb	E602	
Biological Oxygen Demand	ND	4	ppm	SM52108	
Benzene	ND	0.5	ppb	E602	
Hexane Extractable Material w/o Silica Gel Cleanup	ND	5	ppm	E1664A	
Lead	19	0.5	ppb	E200.8	
Toluene	ND	0.5	ppb	E602	



Sample Location: SW(2,4,5,6,7) Sample Time:	3/29/2012				
Analyte	Result	Limit	UOM	Method	
Copper	8.7	5	ррь	6010B	
Zinc	60	5	ppb	60108	
Nickel	ND	5	ррь	60108	
TOG (Hexane Extractable Material-HEM)	ND	4.7	ppm	1664A	
Lead	9.7	5	ppb	60108	
m,p-Xylenes	ND	0.5	ppb	E602	
Ethylbenzene	ND	0.5	ppb	E602	
Benzene	ND	0.5	ppb	E602	
Toluene	ND	0.5	ppb	E602	
pH	6.9	1	SU	SM4500H+8	
o-Xylene	ND	0.5	ppb	E602	

ID:	-	Event Oate: 4/5/	2012	Tours.	Levin Richmond Te	
Site:	402 Wrig	ht Ave			Richmond	CA
Project Name:	LRTO Dis	ch 1+3 120405				
Sample Name:	LRT disch	narge sampling of S	W1 and SW3 on 4	1/5/12		
Sampler:	Helen M	awhinney	Title: Sr	. Enviror	nmental Consultant	
Analytical Lab:	Curtis &	Tompkins				
Description:	S. S. S. Valley and S.	taken from SW1 and d sanitary sewer sy	Company of the Name of the Party of the Part	g permis	sion to discharge in	to City of

Sample Location: SW1, SW3 Sample Tie	mes	4/5/2012		
Analyte	Result	Limit	UOM	Method
Lead	150	5	ppb	E200.7
Copper	68	5	ppb	E200.7
Benzene	ND	0.5	ppb	E624
pH	7	1	SU	9040C
TOG (Hexane Extractable Material-HEM)	10.7	4.7	ppm	1664A
Nickel	14	5	ppb	£200.7
m,p-Xylenes	ND	0.5	ppb	E624
Ethylbenzene	ND	0.5	ppb	E624
Toluene	ND	0.5	ppb	E624
Zinc	990	5	ppb	E200.7
o-Xylene	.5	0.5	ppb	E624

Attachment C – Analytical Results Continued

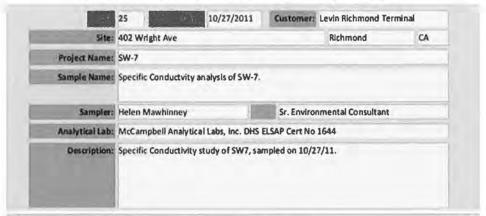
Other Sampling Events

October 27, 2011

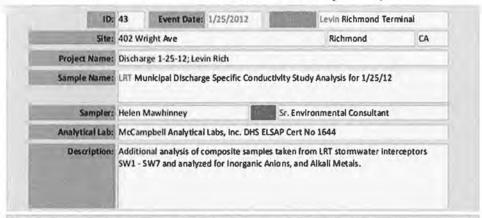
January 25, 2012

March 14, 2012

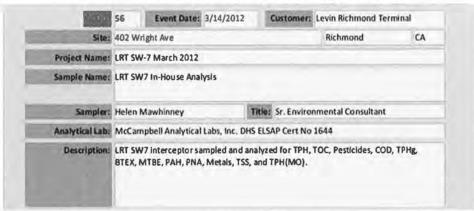
May 9, 2012



Sample Location: SW7 Inflow	Sample Time:		10/27/2011	1	
Analyte		Result	Limit	UQM	Method
Methoxychlor		ND	0.1	ppb	SW8081A
p,p-DOT		0.085	0.01	ppb	SW8081A
Dieldrin		0.15	0.01	ppb	SW8081A
Endosulfan I		ND	0.02	ppb	SW8081A
Endosulfan II		ND	0.02	ppb	SW8081A
Endosulfan sulfate		ND	0.05	ppb	SW8081A
Endrin		0.093	0.01	ppb	SW8081A
Endrin aldehyde		ND	0.05	ppb	SW8081A
Endrin ketone		ND	0.05	ppb	SW8081A
Heptachlorepoxide		ND	0.01	ppb	SW8081A
Toxaphene		ND	0.5	ррь	SW8081A
Hexachlorocydopentadiene		ND	1	ppb	SW8081A
Hexachlorobenzene		ND	0.5	ppb	SW8081A
p,p-DDE		ND	0.01	ppb	SW8081A
Heptachlor		ND	0.01	ppb	5W8081A
g-Chlordane		ND	0.05	ppb	SW8081A
a-Chlordane		ND	0.05	ppb	SW8081A
Chlordane (Technical)		ND	0.1	ppb	SW8081A
g-BHC		ND	0.02	ppb	SW8081A
d-BHC		ND	0.005	ppb	SW8081A
b-BHC		ND	0.005	ppb	SW8081A
p,p-DDD		ND	0.01	ppb	SW8081A
Aldrin		ND	0.005	ppb	SW8081A
a-BHC		ND	0.01	ррь	SW8081A

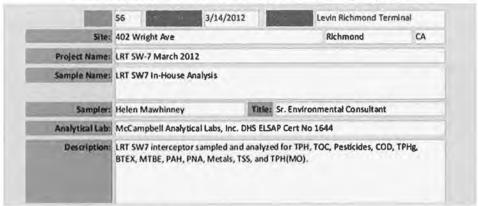


Sample Location: SW1 thru SW7 Samp	le Time:	1/25/2012		
Analyte	Result	Limit	UOM	Method
Nitrate as NO3"	2.6	0.1	ppm	E300.1
Bromide	.54	0.1	ppm	E300.1
Phosphate as P	.19	0.1	ppm	E300.1
Sulfate	23	0.1	ppm	E300.1
Calcium	16000	500	ppb	E200.7
Iron	1900	50	ppb	E200.7
Magnesium	12000	50	ppb	E200.7
Manganese	92	20	ррь	E200.7
Potasium	8100	500	ppb	E200.7
Nitrite as N	ND	0.1	ppm	E300.1
Sodium	82000	500	ppb	E200.7
Chloride	140	0.1	ppm	E300.1
Nitrate as N	.59	0.1	ppm	E300.1
Fluoride	.11	0.1	ppm	E300.1

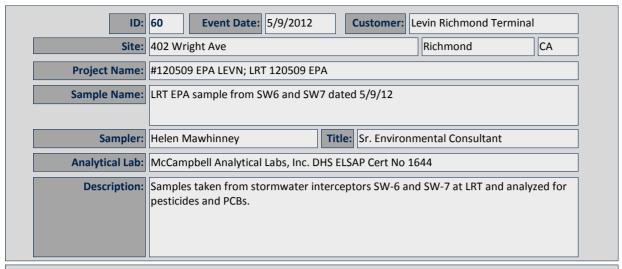


Sample Location: SW-7 Sample			3/14/20	012	
Analyte		Result	Limit	UOM	Method
Aroclor1248		ND	0.5	ppb	E608
Organic Carbon, Total		1.8	0.3	ppm	E415.3
TPH-Motor Oil (C18-C36)		ND	250	ppb	5W80158
Total Suspended Solids		1.80	1	ppm	SM2540D
Chemical Oxygen Demand		ND	10	ppm	SM52200
Specific Conductivity		35	10	µmhos/cm @ 25°C	SM2510B
Aroclor1254		ND	0.5	ppb	E608
Petroleum Hydrocarbons - Gasol	ine, Total	ND	50	ppb	SW82608
Arodor1242		ND	0.5	ppb	E608
Arodor 1232		ND	0.5	ppb	E608
Arodor 1221		ND	0.5	ppb	E608
Arodor 1260		ND	0.5	ppb	E608
Zinc		13	5	ppb	E200.8
PCBs, total		ND	0.5	ppb	E608
Aluminum		75	50	ppb	E200.7
Iron		120	20	ppb	E200.7
Lead		1.3	0.5	ppb	E200.8
Copper		2.5	0.5	ppb	E200.8
Xylenes, Total		ND	0.5	ppb	SW8260B
Toluene		ND	0.5	ppb	SW8260B
Ethylbenzene		ND	0.5	ppb	SW8260B
Benzene		ND	0.5	ppb	SW8260B
Methyl Tert-Butyl Ether		ND	0.5	ppb	SW8260B
Vanadium		2.1	0.5	ppb	E200.8
Endrin aldehyde		ND	0.01	ppb	E608
p,p-DOE		ND	0.01	ppb	E608
p,p-DOT		ND	0.01	ppb	E608
Dieldrin		ND	0.01	ррь	E608
Endosulfan I		ND	0.02	ppb	E608
Endosulfan II		ND	0.01	ppb	E608

Laboratory Analytical Report ID: 56 Event Date: 3/14/2012 Customer: Levin Richmond Terminal

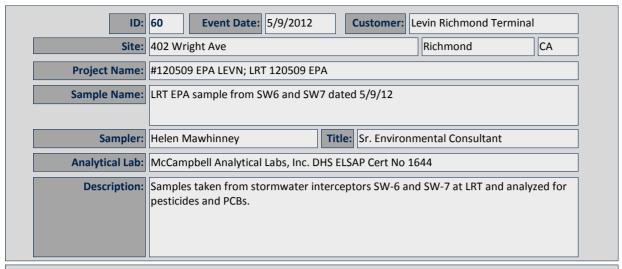


Sample Location: SW-7	Sample Time:		3/14/2012		
Analys		Result	Limit	UOM	Method
p,p-DDD		ND	0.01	ррь	8608
Endrin		ND	0.01	ppb	E608
Heptachlor epoxide		ND	0.01	ррь	E608
Endrin ketone		ND	0.05	ppb	E608
Heptachlor		ND	0.01	ppb	E608
Hexachlorobenzene		ND	0.5	ppb	E608
Hexachloro cydopentadiene		ND	1	ppb	E608
Aldrin		ND	0.005	ppb	E608
Methoxychlor		ND	0.1	ppb	E608
Endosulfan sulfate		ND	0.05	ppb	E608
Chlordane (Technical)		ND	0.1	ppb	E608
Arodor1016		ND	0.5	ppb	E608
Petroleum Oil and Grease With	Silica Gel Cleanup	ND	50	ppm	SM5520B/F
a-BHC		ND	0.01	ррь	£608
b-BHC		ND	0.005	ppb	E608
g-BHC		ND	0.02	ppb	E608
Toxaphene		ND	0.5	ppb	E608
a-Chlordane		ND	0.05	ppb	E608
g-Chlordane		ND	0.05	ppb	E608
d-BHC		ND	0.005	ppb	E608



Sample Location: SW-6	Sample Time:	5/9/2012	10:01:00 A	M	
Analyte	2	Result	<u>Limit</u>	<u>UOM</u>	Method
Endosulfan sulfate		ND	0.05	ppb	SW8081A/8082
Aldrin		ND	0.005	ppb	SW8081A/8082
Aroclor1248		ND	0.5	ppb	SW8081A/8082
Aroclor1242		ND	0.5	ppb	SW8081A/8082
Aroclor1232		ND	0.5	ppb	SW8081A/8082
Aroclor1221		ND	0.5	ppb	SW8081A/8082
Aroclor1016		ND	0.5	ppb	SW8081A/8082
Toxaphene		ND	0.5	ppb	SW8081A/8082
Methoxychlor		ND	0.1	ppb	SW8081A/8082
Hexachlorocyclopentadiene		ND	1	ppb	SW8081A/8082
Hexachlorobenzene		ND	0.5	ppb	SW8081A/8082
Heptachlor epoxide		ND	0.01	ppb	SW8081A/8082
Heptachlor		ND	0.01	ppb	SW8081A/8082
Endrin ketone		ND	0.05	ppb	SW8081A/8082
Aroclor1254		ND	0.5	ppb	SW8081A/8082
o,p-DDD		0.021	0.01	ppb	SW8081A/8082
a-BHC		ND	0.01	ppb	SW8081A/8082
b-BHC		ND	0.005	ppb	SW8081A/8082
d-BHC		ND	0.005	ppb	SW8081A/8082
g-BHC		ND	0.02	ppb	SW8081A/8082
Chlordane (Technical)		ND	0.1	ppb	SW8081A/8082
Endrin aldehyde		ND	0.05	ppb	SW8081A/8082
g-Chlordane		ND	0.05	ppb	SW8081A/8082
Endrin		ND	0.01	ppb	SW8081A/8082
o,p-DDE		0.037	0.01	ppb	SW8081A/8082
o,p-DDT		0.044	0.01	ppb	SW8081A/8082
Dieldrin		0.013	0.01	ppb	SW8081A/8082
Endosulfan I		ND	0.02	ppb	SW8081A/8082
Endosulfan II		ND	0.02	ppb	SW8081A/8082
Aroclor1260		ND	0.5	ppb	SW8081A/8082

ID:	60	Event Date: 5/9	/2012	С	ustomer:	Levin Richmond T	erminal
Site:	402 Wrig	ght Ave				Richmond	CA
Project Name:	#120509	EPA LEVN; LRT 12	0509 EPA				
Sample Name:	LRT EPA	sample from SW6	and SW7 (dated	5/9/12		
Sampler:	Helen M	awhinney	1	Γitle:	Sr. Enviro	nmental Consultan	it
Analytical Lab:	McCamp						
Description:		taken from storm es and PCBs.	water inte	rcepto	ors SW-6 a	nd SW-7 at LRT an	d analyzed for
Sample Location: SW-6		Sample Time:	5/9/201	L 2 1 0:0	01:00 AM		
Ana	<u>lyte</u>		Result	L	<u>imit</u>	<u>UOM</u>	<u>Method</u>
a-Chlordane			ND	C	0.05	ppb	SW8081A/8082



Sample Location: SW-7	Sample Time:	5/9/2012	10:49:00 A	M	
Analyte	2	<u>Result</u>	<u>Limit</u>	<u>UOM</u>	Method
Endosulfan sulfate		ND<0.25	0.05	ppb	SW8081A/8082
Aroclor1254		ND<2.5	0.5	ppb	SW8081A/8082
Aroclor1248		ND<2.5	0.5	ppb	SW8081A/8082
Aroclor1242		ND<2.5	0.5	ppb	SW8081A/8082
Aroclor1232		ND<2.5	0.5	ppb	SW8081A/8082
Aroclor1221		ND<2.5	0.5	ppb	SW8081A/8082
Aroclor1016		ND<2.5	0.5	ppb	SW8081A/8082
Гохарһепе		ND<2.5	0.5	ppb	SW8081A/8082
Methoxychlor		ND<0.50	0.1	ppb	SW8081A/8082
Hexachlorocyclopentadiene		ND<5.0	1	ppb	SW8081A/8082
Hexachlorobenzene		ND<2.5	0.5	ppb	SW8081A/8082
Heptachlor epoxide		ND<0.050	0.01	ppb	SW8081A/8082
Heptachlor		ND<0.050	0.01	ppb	SW8081A/8082
Endrin ketone		ND<0.25	0.05	ppb	SW8081A/8082
Aldrin		ND<0.025	0.005	ppb	SW8081A/8082
o,p-DDD		0.066	0.01	ppb	SW8081A/8082
a-BHC		ND<0.050	0.01	ppb	SW8081A/8082
o-BHC		ND<0.025	0.005	ppb	SW8081A/8082
d-BHC		ND<0.025	0.005	ppb	SW8081A/8082
g-BHC		ND<0.10	0.02	ppb	SW8081A/8082
Chlordane (Technical)		ND<0.50	0.1	ppb	SW8081A/8082
Endrin aldehyde		ND<0.25	0.05	ppb	SW8081A/8082
g-Chlordane		ND<0.25	0.05	ppb	SW8081A/8082
Endrin		ND<0.050	0.01	ppb	SW8081A/8082
o,p-DDE		0.11	0.01	ppb	SW8081A/8082
o,p-DDT		0.091	0.01	ppb	SW8081A/8082
Dieldrin		ND<0.050	0.01	ppb	SW8081A/8082
Endosulfan I		ND<0.10	0.02	ppb	SW8081A/8082
Endosulfan II		ND<0.10	0.02	ppb	SW8081A/8082
Aroclor1260		ND<2.5	0.5	ppb	SW8081A/8082

ID:	60	Event Date: 5/9	9/2012	Cust	omer:	Levin Richmond T	erminal
Site:	402 Wri	ght Ave				Richmond	CA
Project Name:	#120509	EPA LEVN; LRT 12	0509 EPA				
Sample Name:	LRT EPA	sample from SW6	and SW7 d	ated 5/9	/12		
Sampler:	Helen M	awhinney	Ti	Sr.	Environ	mental Consultan	t
Analytical Lab:	McCamp	bell Analytical Lab	s, Inc. DHS	ert No 1	644		
Description:	Description: Samples taken from stormy pesticides and PCBs.				SW-6 ar	id SW-7 at LRT an	d analyzed for
Sample Location: SW-7		Sample Time:	5/9/2012	2 10:49:0	00 AM		
<u>Ana</u>	<u>lyte</u>		Result	Limi		<u>UOM</u>	<u>Method</u>
a-Chlordane	•		ND<0.25	0.05		ppb	SW8081A/808

Attachment D CLEANING OF INTERCEPTORS SW-1 through SW-7

CLEANING OF INTERCEPTORS SW-1 through SW-7

Stormwater Sampling / Interceptor Preparation

Plans for the annual cleaning of storm water interceptors were developed by Levin Richmond Terminal personnel with Environmental Technical Services in June, 2003. Cleaning was increased to several times throughout the year beginning in June, 2005 and remains an active part of LRTC's SWPPP. The interceptors are emptied on an asneeded basis to decrease or eliminate storm water discharge.

Stormwater Sampling / Interceptor Preparation

The methodologies used to collect storm water samples within the interceptors and to fill appropriately preserved sampling containers for analysis are described as follows:

A groundwater monitoring pump (GMP) was purchased by LRT to collect an undisturbed and representative storm water sample. Non-toxic FDA approved tubing was attached to the pump to transport storm water into the appropriate containers.

SW-1 through SW-7

Stormwater samples were collected within SW-1 through SW-7 by opening an access port into the large interceptor cover. A GMP was lowered into the standing water in the last chamber and stormwater was pumped into a clean sample collection container.

Three discrete, 40-ml, Volatile Organics Analysis bottles were filled from each interceptor, to be composited by a State-certified analytical laboratory as one sample for analysis. Stormwater samples for all other analysis were composited during field sampling. This was accomplished by collecting equal amounts of water from each interceptor within a clean 5-gallon Teflon container provided by the laboratory. Upon completion this water was then decanted into appropriately preserved sample containers.

Each sample bottle was labeled with LRTC as the project name; storm water system identification number; sampler's name, date, time and preservative. The samples were placed within a cooler on ice, and transported to a certified analytical laboratory under chain of custody, within the sample's holding time.

Analysis

For the purpose of obtaining the City of Richmond, Waste Water Division, Pretreatment Program's approval to discharge collected storm water into the municipal sanitary sewer during interceptor cleanout. Composite samples were analyzed for total petroleum hydrocarbons reported as hexane extractable materials oil and grease ((silica gel treated) HEM, using EPA Method 1664); benzene, ethyl benzene, total xylenes, (BTEX,

using EPA Method 624); pH (using a HYDAC meter or SM4500H&B), copper, nickel, lead, and zinc (using EPA Method 200.7 or 200.8).

Certified clean, properly preserved bottles were supplied by Curtis and Tompkins Analytical Labs, a state-certified analytical laboratory. The bottles were stored in sealed, plastic bags and placed within tightly sealed containers to prevent contamination. Helen Mawhinney of ETS collected the storm water samples. Disposable latex gloves were changed when an unclean surface was encountered, and between samples. Headspace was eliminated in sample bottles and appropriate preservatives used.

Upon completion, laboratory analytical results were presented to the City of Richmond Waste Water Division, Pretreatment Program, for review to determine if water removed during the storm water interceptor's cleaning process could be discharged into the sanitary sewer. The City of Richmond approved discharge under LRTC's Industrial Discharge Permit. The Waste Water Division was notified 48 hours prior to each project start.

LRTC's stormwater team emptied and cleaned interceptors SW-1 through SW-7. LRTC pumped water from the interceptors utilizing a specially equipped water truck. Water was discharged from the water truck directly into the sanitary sewer or returned to stockpiles for dust control by spraying. Sediment was removed from the interceptors using storm water to liquefy the sediment, which was then pumped into the vacuum truck. Sediment was released from the truck into a sealed concrete, bermed wash water collection basin where it was covered with plastic and allowed to dry. The sediment was returned to the stockpiles from which it was generated or disposed of at a qualified landfill.

Subsequent to emptying, each interceptor's floor and sidewalls were pressure-washed. This process was repeated until all the sediment had been removed and the cleaning of each interceptor complete.

Attachment E Certified Laboratory Analytical Reports Chain of Custody

Annual Sampling Events

January 20, 2012 February 7, 2012 March 14, 2012

Discharge To Sanitary Sewer Stormwater Systems Cleanout Sampling Events

October 5, 2011 November 29, 2011 January 25, 2012 March 29, 2012 April 5, 2012

Other Sampling Events

October 27, 2011 January 25, 2012 March 14, 2012 May 9, 2012

Certified Laboratory Analytical Report Annual Sampling Events

January 20, 2012

February 7, 2012

March 14, 2012

Certified Laboratory Analytical Report Annual Sampling Events

January 20, 2012

Analytical Report

Environmental Technical Services	Client Project ID: LRT First Annual Stormwater Sampling Event	Date Sampled: 01/20/12
1548 Jacob Avenue	Sampling Event	Date Received: 01/23/12
1546 Jacob Avenue	Client Contact: Helen Mawhinney	Date Reported: 02/02/12
San Jose, CA 95118	Client P.O.: #22430	Date Completed: 01/27/12

WorkOrder: 1201573

February 02, 2012

Dear Helen:

Enclosed within are:

- 1) The results of the 8 analyzed samples from your project: LRT First Annual Stormwater Sampling Event,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc. 1201573

Received By:

Time:

Date:

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PO Number:					E-Mai	il: b	mar	whi	inne	vet	s@	nol	cor	m	MILI			1																here if these samples are
Tele: (831)236-				Fax: (_						2	313	3510/8015B / M	& CREASE (1664						SOLOAZONI DB										potentially
Project #:			1	Projec	t Na	me:									1	STREETS (MI	1	3						10.42							1			dangerous to
Project Locate: 1			ninal (LF	(T) 40)2 W	righ	t A	ve,	Rich	m	ond	94	804	1	031	81018	10.5	CR																handle:
Sampler Signatu	re: R.A.	LESI	TER	, Kh	2 .	15	平	3)						1									N.V.										
		SAM	PLING		2		MA	TR	ux				RVI		AS (64	(111-2)	C28.C30	OWI						PR.ZN.	SHOP									
SAMPLE ID	LOCATION/ Field Point Name	Date Oi /20	Time	Containers	Type Containers	Water	Soll	Air	Sludge	Other	ICE	НСГ	HNO	Other	8260 C6-C10	TEPH DIESEL C10-28	MOTOR OIL C	TOTAL PETROLEUM OIL	1SS SM18-2540D	SPEC COND 120,1	COD RACH SHOO	H- 11 6051 ETAS H-	301	TILCAL, CL. FE.	EPA 8081 PESTICIDES									
SWI	CLA		1500	壮	-	X		4	On C	4			-	7	X	X		XX		X			X			-	-	H	\vdash	H	H	H	+	
SW2	SWI	01/00	TO 1500			1			1	+	+	+	+	+	1	1	1	1	1	1	7		1	1			-	+	-			H		
Sw3	SWZ		10 1500	1		\vdash			1	+	+	+	+	+	+	1	+	+	1	1	+	1	1	H	1	H	\vdash	1	+	+		\vdash		
SW4	SWY		-	\vdash	_				1	+	+	+	+	+	+	1	+	+	H	1	+	1		H	H		-	-	+	\vdash		+		
	-		1	\vdash				\vdash	-	+	-	+	+	+	+	1		H	H	+	1	1	+	+	H		-	-	-	-		+		
5W5	CW3	-	-	-	_	\vdash			-	+	+	+	-	+	+		H		\forall	H	H	1	+	H	Н	-	-	H	-			\vdash		
SW6	Sella		1	\vdash	\vdash	\vdash	\vdash		-	+	+	+	-	+	+	\vdash	+			H	\vdash	1	-	H	H		-	H	-	\vdash				
SW7	Sult	-	1	-				\vdash	-	+	-	-	-	\dashv	+		+		H		H	1	+	H	H	\vdash	-	-	-	\vdash	-	+		
SWII	SWII							\Box	_	4	4	_	_	4	1		11	1	H	H	H	H	1	1	Н		-	\vdash	-	-		\vdash		
SW12	Swill	V	1							4		_		_	1	1	+	1	1	1-	1	7	1	1	1		-		-			\perp	\perp	
V = 1 - 1 - 1	-/16	4		-		\sqcup				4	4	1	_	4			1							_		L	-		-			Ш	Ц	
X SWIO NOT F	HOWING -					\perp				_		1		\perp																				
**MAI clients MUST gloved, open air, same allowing us to work sa	ple handling by																																	
Relinquished By:	ŦR.	Date:	Time: 1/30	Rece	rived B	ly:								T	GO		CO	NDIT CE A		-	_							PHd.	TO		&G s	S: separa		
Relinquished By:	+	Date:	Time:	Rece	elved B	y:								٦	DE	CHL	OF	UNATE	TED	INI		D.S.	_											re-aproval

PRESERVED IN LAB____

VOAS OAG METALS OTHER PRESERVATION______PH<

McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

WorkOrder: 1201573

ClientCode: ETS

☐ WaterTrax WriteOn EDF Excel Fax **✓** Email HardCopy ThirdParty J-flag Bill to: Report to: Requested TAT: 5 days HMawhinneyETS@aol.com; james.jimenez Helen Mawhinney Email: Helen Mawhinney **Environmental Technical Services** CC: **Environmental Technical Services** Date Received: 01/23/2012 1548 Jacob Avenue PO: #22430 1548 Jacob Avenue ProjectNo: LRT First Annual Stormwater Sampling San Jose, CA 95118 San Jose, CA 95118 Date Printed: 01/23/2012 510-385-4308 Event FAX: 510-522-6259 james.jimenez@sbcglobal.net

								Re	queste	Tests	See leg	end bel	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1201573-001	SW1	Water	1/20/2012	TOI	-	G	D	С	Α	D	E	E	В	Н	F	
1201573-002	SW2	Water	1/20/2012		1	G	D	С	Α	D	E	E	В	H	F	
1201573-003	SW3	Water	1/20/2012		-1	G	D	С	Α	D	E	E	В	Н	F	
1201573-004	SW4	Water	1/20/2012		1	G	D	F	Α	D	E	E	В	H	F	
1201573-005	SW5	Water	1/20/2012		1	G	D	E	Α	D	E	E	В	Н	F	1
1201573-006	SW6	Water	1/20/2012		- 1	G	D	С	Α	D	E	E	В	Н	F	
1201573-007	SW7	Water	1/20/2012		400	G	D	С	Α	D	E	E	В	Н	F	
1201573-008	SW11	Water	1/20/2012		1	G	D	С	Α	D	E	E	В	Н	F	
1201573-009	SW12	Water	1/20/2012		Die.	G	D	С	Α	D	E	E	В	Н	F	

Test Legend:

1	1664A_W	2	8081_W	
6	METALSMS_W	7	PH_W	
11	TSS_W	12		_

8	ALKIMET_W
8	SC W

4	COD_W
9	TOC W

5	GAS8260_W
10	TPH(DMO)_W

Prepared by: Maria Venegas

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A contain testgroup.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Cilent Name.	Environmental	reclinical services			Date	ind time Ked	Jelved. 1/23/2012	1.50.31 PM
Project Name:	t Name: LRT First Annual Stormwater Sampling Event			Check	list complete	d and reviewed by:	Melissa Valles	
WorkOrder N°;	1201573	Matrix: Water			Carrie	r: <u>Client I</u>	Drop-In	
		Ch	ain of C	ustody (C	OC) Informa	tion		
Chain of custody	y present?		Yes	•	No 🗆			
Chain of custody	y signed when re	inquished and received?	Yes	•	No 🗆			
Chain of custody	y agrees with san	nple labels?	Yes		No 🗆			
Sample IDs note	ed by Client on C	OC?	Yes	•	No 🗌			
Date and Time of	of collection notes	by Client on COC?	Yes	•	No 🗆			
Sampler's name	noted on COC?		Yes	V	No 🗌			
			Sample	e Receipt	Information			
Custody seals intact on shipping container/cooler?		Yes		No 🗆		NA 🗸		
Shipping container/cooler in good condition?		Yes	1	No 🗆				
Samples in prop	per containers/bot	tles?	Yes		No 🗸			
Sample containe	ers intact?		Yes	~	No 🗆			
Sufficient sample	e volume for indi	cated test?	Yes	•	No 🗌			
		Sample Pre	servatio	n and Ho	old Time (HT)	Information		
All samples rece	eived within holdin	ng time?	Yes		No 🗸			
Container/Temp	Blank temperatu	re	Coole	er Temp:	5.6°C		NA 🗆	
Water - VOA via	als have zero hea	dspace / no bubbles?	Yes	~	No 🗆	No VOA vial	Is submitted	
Sample labels c	hecked for correc	et preservation?	Yes	~	No 🗌			
Metal - pH accep	ptable upon recei	pt (pH<2)?	Yes	•	No 🗆		NA 🗆	
Samples Receiv	ed on Ice?		Yes	•	No 🗌			
		(Ice Ty	pe: WE	TICE)			
* NOTE: If the "I	No" box is checke	ed, see comments below.						

Comments: For samples SW4 & SW5 no voas for COD were received. pH for all samples was received pass it's holding time.

Client Project ID: LRT First Annual	Date Sampled: 01/20/12	
Stormwater Sampling Event	Date Received: 01/23/12	
Client Contact: Helen Mawhinney	Date Extracted 01/27/12	
Client P.O.: #22430	Date Analyzed 01/30/12	
	Stormwater Sampling Event Client Contact: Helen Mawhinney	Stormwater Sampling Event Date Received: 01/23/12 Client Contact: Helen Mawhinney Date Extracted 01/27/12

Hexane Extractable Material without Silica Gel Clean Up*

Extraction method: E1664	hod: E1664A Analytical methods: E1664A				Work Order	1201573
Lab ID	Client ID	Matrix	HEM	DF	% SS	Comment
1201573-0011	SW1	w	ND	1	N/A	
1201573-002I	SW2	w	ND	1	N/A	ь1
1201573-003I	SW3	w	ND	1	N/A	
1201573-0041	SW4	w	ND	i	N/A	
1201573-005I	SW5	w	ND	1	N/A	
1201573-006I	SW6	w	ND	1	N/A	
1201573-008I	SW11	w	ND	1	N/A	
1201573-0091	SW12	w	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or	w	5.0	mg/L
above the reporting limit	S	NA	NA

^{*} water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg. wipe samples in mg/wipe, product/oil/nonaqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference). %SS = Percent Recovery of Surrogate Standard

surrogate diluted out of range

b1) aqueous sample that contains greater than -1 vol. % sediment

Angela Rydelius, Lab Manager

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12		
1548 Jacob Avenue	Stormwater Sampling Event	Date Received:	01/23/12	
1346 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted:	01/23/12	
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed:	01/24/12-01/29/12	

Extraction Method: SW3510C	An	alytical Method: SW808	IA.		Work Order: 12	2013/3
Lab ID	1201573-001G	1201573-002G	1201573-003G	1201573-004G	Reporting Limit fo	
Client ID	SW1	SW2	SW3	SW4		≃1
Matrix	W	w	W	w	s	w
DF	1	1	1	1	3	
Compound		Conce	entration		μg/kg	μg/L.
Aldrin	ND	ND	ND	ND	NA	0.005
a-BHC	ND	ND	ND	ND	NA	0.01
b-BHC	ND	ND	ND	ND	NA	0.005
d-BHC	ND	ND	ND	ND	NA	0.005
g-BHC	ND	ND	ND	ND	NA	0.02
Chlordane (Technical)	ND	ND	ND	ND	NA	0.1
a-Chlordane	ND	ND	ND	ND	NA	0.05
g-Chlordane	ND	ND	ND	ND	NA	0.05
p.p-DDD	ND	ND	ND	ND	NA	0.01
p.p-DDE	ND	ND	ND	ND	NA	0.01
p,p-DDT	ND	ND	ND	ND	NA	0.01
Dieldrin	ND	ND	ND	ND	NA	0.01
Endosulfan I	ND	ND	ND	ND	NA	0.02
Endosulfan II	ND	ND	ND	ND	NA	0.02
Endosulfan sulfate	ND	ND	ND	ND	NA	0.05
Endrin	ND	ND	ND	ND	NA	0.01
Endrin aldehyde	ND	ND	ND	ND	NA	0.05
Endrin ketone	ND	ND	ND	ND	NA	0.05
Heptachlor	ND	ND	ND	ND	NA	0.01
Heptachlor epoxide	ND	ND	ND	ND	NA	0.01
Hexachlorobenzene	ND	ND	ND	ND	NA	0.5
Hexachlorocyclopentadiene	ND	ND	ND	ND	NA	1.0
Methoxychlor	ND	ND	ND	ND	NA	0.1
Toxaphene	ND	ND	ND	ND	NA	0.5
		Surrogate Recover				
%SS:	93	84	81	83		
Comments		61				

* water samples in µg/L, soil/sludge/solid samp	les in mg/kg, wipe samples in	μg/wipe, filter samples in μ	g/filter, product/oil/non-aqueous liquid samples and
all TCLP & SPLP extracts are reported in mg/L			, , , , , , , , , , , , , , , , , , , ,

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
1346 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 01/23/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 01/24/12-01/29/12

Organochlorine Pesticides by GC-ECD (8080 Basic Target List)*

Lab ID	1201573-005G	1201573-006G	1201573-008G	1201573-009G	August No.	e la Auford
Client ID	SW5	SW6	SW11	SW12	Reporting Limit for DF =1	
Matrix	W	w	W	W	S	w
DF	1	1	5	1	3	W
Compound		Conce	entration		μg/kg	μg/L
Aldrin	ND	ND	ND<0.025	ND	NA	0.005
a-BHC	ND	ND	ND<0.050	ND	NA	0.01
b-BHC	ND	ND	ND<0.025	ND	NA	0.005
d-BHC	ND	ND	ND<0.025	ND	NA	0.005
g-BHC	ND	ND	ND<0.10	ND	NA	0.02
Chlordane (Technical)	ND	ND	ND<0.50	ND	NA	0.1
a-Chlordane	ND	ND	ND<0.25	ND	NA	0.05
g-Chlordane	ND	ND	ND<0.25	ND	NA	0.05
p.p-DDD	ND	ND	ND<0.050	ND	NA	0.01
p,p-DDE	ND	ND	ND<0.050	ND	NA	0.01
p.p-DDT	ND	ND	ND<0.050	ND	NA	0.01
Dieldrin	ND	ND	ND<0.050	ND	NA	0.01
Endosulfan I	ND	ND	ND<0.10	ND	NA	0.02
Endosulfan II	ND	ND	ND<0.10	ND	NA	0.02
Endosulfan sulfate	ND	ND	ND<0.25	ND	NA	0.05
Endrin	ND	ND	ND<0.050	ND	NA	0.01
Endrin aldehyde	ND	ND	ND<0.25	ND	NA	0.05
Endrin ketone	ND	ND	ND<0.25	ND	NA	0.05
Heptachlor	ND	ND	ND<0.050	ND	NA	0.01
Heptachlor epoxide	ND	ND	ND<0.050	ND	NA	0.01
Hexachlorobenzene	ND	ND	ND<2.5	ND	NA	0.5
Hexachlorocyclopentadiene	ND	ND	ND<5.0	ND	NA	1.0
Methoxychlor	ND	ND	ND<0.50	ND	NA	0.1
Toxaphene	ND	ND	ND<2.5	ND	NA	0.5
		Surrogate Recover	ries (%)			
%SS:	88	103	103	100		
Comments			a3			

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coclutes with another peak.

- a3) sample diluted due to high organic content.
- b1) aqueous sample that contains greater than -1 vol. % sediment

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
1540 Jacob Hvenac	Client Contact: Helen Mawhinney	Date Extracted: 01/23/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 02/01/12

Alkali Metals by ICP*

Extraction method: E200.7 Analytical methods: E200.7 Work Order: 1201573

Extraction method: E200.7		Analytical methods. E200.7			Wolk Older: 12013/3			
Lab ID	Client ID	Matrix	Extraction Type	Aluminum	Iron	DF	% SS	Commen
001D	SW1	w	TOTAL	640	1600	1	114	
002D	SW2	w	TOTAL	5400	10,000	1	100	b1
003D	SW3	w	TOTAL	1700	3900	1	104	
004D	SW4	w	TOTAL	710	1400	1	105	
005D	SW5	W	TOTAL	160	440	i	99	
006D	SW6	w	TOTAL	300	700	1	97	
008D	SW11	w	TOTAL	2000	4000	1	98	
009D	SW12	w	TOTAL	200	520	1	98	
R	eporting Limit for DF =1;	w	TOTAL	50	50		μg/I	
ND means not detected at or above the reporting limit		S	TOTAL	NA	NA		NA	

		7.7	6
OTAL	NA	NA N	JA.
	TOTAL	TOTAL NA	TOTAL NA NA N

water samples are reported in ug/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

b1) aqueous sample that contains greater than ~1 vol. % sediment

Angela Rydelius, Lab Manager

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
1346 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 01/24/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 01/24/12
	1 2000 2 17 120 2000	

Chemical Oxygen Demand (COD)*

Analytical Method: SM52201	D			Work Order:	1201573
Lab ID	Client ID	Matrix	COD	DF	Comment
1201573-001C	sw1	w	15	1	
1201573-002C	SW2	w	310	1	bl
1201573-003C	SW3	w	45	1	
1201573-004F	SW4	w	ND	1	
1201573-005F	SW5	w	17	1	
1201573-006C	SW6	w	15	1	
1201573-008C	SW11	w	190	1	
1201573-009C	SW12	w	17	1	

Reporting Limit for DF = 1; ND means not detected at or above the	w	10 mg/L
reporting limit	S	NA

*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
1540 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted 01/24/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed 01/24/12

TPH(g) by Purge & Trap and GC/MS*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 1201573

action method: Sw 30	SVD	Analytical methods	5. 3W0200D	·	ork Order.	12013/3
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Commen
001A	SW1	w	ND	1	116	
002A	SW2	w	ND	1	115	bl
003A	SW3	w	ND	-1	116	
004A	SW4	w	ND	1	106	
005A	SW5	w	ND	1	115	
006A	SW6	w	ND	1	115	
008A	SW11	w	ND	1	113	
009A	SW12	w	ND	ĺ	104	

Reporting Limit for DF =1; ND means not detected at or	w	50	μg/L
above the reporting limit	S	NA	NA

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12		
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12		
1345 Jacob Arenae	Client Contact: Helen Mawhinney	Date Extracted: 01/24/12		
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 01/24/12		

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1201573 Lab ID 1201573-001A 1201573-002A 1201573-003A 1201573-004A SW2 SW1 SW3 SW4 Client ID Reporting Limit for DF = 1W W W W Matrix DF 1 1 1 1 S W Concentration Compound ug/kg µg/L ND ND Benzene ND ND NA 0.5 ND ND Ethylbenzene ND ND NA 0.5 Methyl-t-butyl ether (MTBE) ND ND ND ND NA 0.5 Toluene ND ND ND ND 0.5 NA Xylenes, Total ND ND ND ND NA 0.5 Surrogate Recoveries (%)

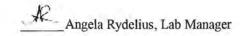
| Surrogate Recoveries (%) | %SS1: | 92 | 95 | 97 | 87 | | %SS2: | 116 | 114 | 116 | 106 | | Comments | b1 |

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
1346 Jacob Avenac	Client Contact: Helen Mawhinney	Date Extracted: 01/24/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 01/24/12

MTBE and BTEX by GC/MS*

Analytical Method: SW8260B Extraction Method: SW5030B Work Order: 1201573 Lab ID 1201573-005A 1201573-006A 1201573-008A 1201573-009A SW5 SW6 SW12 SW11 Client ID Reporting Limit for DF=1 Matrix W W W W DF 1 1 1 1 S W Compound Concentration μg/L ug/kg ND ND ND ND 0.5 Benzene NA ND ND ND ND 0.5 Ethylbenzene NA Methyl-t-butyl ether (MTBE) ND ND ND ND NA 0.5 Toluene ND ND ND ND NA 0.5 Xylenes, Total ND ND ND ND NA 0.5 Surrogate Recoveries (%)

Comments					
%SS2:	115	115	113	104	
%SS1:	93	92	92	91	

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than -1 vol. % sediment



Environmental Technical Services	Client Project ID: LRT First Annual Stormwater Sampling Event	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
10 70000 11 70000	Client Contact: Helen Mawhinney	Date Extracted: 01/23/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 01/25/12

M	e	ta	s*
TAR			

Extraction met	nod: E200.8		A	nalytical methods:	E200.8			Work C	Order: 12	201573
Lab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Vanadium	Zinc	DF	% SS	Commen
001D	SW1	w	TOTAL	22	20	5.0	170	1	103	
002D	SW2	w	TOTAL	49	75	25	450	10	105	ь1
003D	SW3	w	TOTAL	12	9.9	13	91	1	109	
004D	SW4	w	TOTAL	12	6.7	7.8	65	1	105	
005D	SW5	w	TOTAL	19	4.2	4.3	88	1	105	
006D	SW6	w	TOTAL	32	8.5	5.3	180	1	105	
008D	SW11	w	TOTAL	14	18	68	120	10	106	
009D	SW12	w	TOTAL	20	4.3	8.5	57	1	103	
	ing Limit for DF =1; ans not detected at or	W	TOTAL	0.5	0.5	0.5	5.0		μg/I	
above	the reporting limit	S	TOTAL	NA	NA	NA	NA		NA	

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment

Angela Rydelius, Lab Manager

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
1540 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 01/23/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 01/23/12

Analytical Method: SM4500	н+в	pH*		Work Order	1201573
Lab ID	Client ID	Matrix	pH	DF	Comments
1201573-001E	SW1	w	7.39 @ 18.5°C	1	
1201573-002E	SW2	w	7.03 @ 17.8°C	1	b1
1201573-003E	SW3	w	7.41 @ 17.1°C	1	
1201573-004E	SW4	w	7.61 @ 17.5°C	1	
1201573-005E	SW5	w	7.43 @ 20.2°C	1	
1201573-006E	SW6	w	7.38 @ 19.9°C	1	
1201573-008E	SW11	w	7.75 @ 19.4°C	1	
1201573-009E	SW12	w	7.86 @ 19.8°C	1	

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C
	S	NA

^{*} According the formal method, this is "field test" with a 15 minute Hold Time. However, as this is unrealistically short for commercial environmental analysis, MAI has designated a 24 hour hold time for aqueous samples.

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment



Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
1540 Sucob Prvenuc	Client Contact: Helen Mawhinney	Date Extracted: 01/23/12-01/26/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 01/23/12-01/26/12

Specific Conductivity*

Analytical Method: SM25101				Work Order:	
Lab ID	Client ID	Matrix	Specific Conductivity	DF	Comment
1201573-001E	SW1	w	117 @ 25.0°C	1	
1201573-002E	SW2	w	192 @ 25.0°C	1	61
1201573-003E	SW3	w	4350 @ 23.2°C	1	
1201573-004E	SW4	w	176 @ 25.0°C	1	
1201573-005E	SW5	w	149 @ 25.0°C	1	
1201573-006E	SW6	w	139 @ 25.0°C	T	
1201573-008E	SWII	w	2010 @ 25.0°C	1	
1201573-009E	SW12	w	136 @ 25.0°C	i i	
				1	

Reporting Limit for DF = 1; ND means not detected at or above the	w	10 μmhos/cm @ 25°C
reporting limit	S	NA

DF = Dilution Factor

b1) aqueous sample that contains greater than -1 vol. % sediment

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
1340 Jacob Piveline	Client Contact: Helen Mawhinney	Date Extracted: 01/27/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 01/27/12

Total Organic Carbon (TOC) reported as NPO	Total Organic	Carbon	(TOC)	reported	as NPOC
--	----------------------	--------	-------	----------	---------

Lab ID	Client ID	Matrix	TOC	DF	Comments
1201573-001B	SW1	w	5.6	1	
1201573-002B	SW2	w	18	1	b1
1201573-003B	SW3	w	5.2	1	
1201573-004B	SW4	w	4.8	1	
1201573-005B	SW5	w	7.9	1	
1201573-006B	SW6	w	8.0	I	
1201573-008B	SWII	w	3.0	1	
1201573-009B	SW12	w	9.1	1	

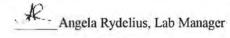
Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.3 mg/L	
	S	NA	

^{*} water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3. TOC is reported as NPOC.

TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon; POC = Purgeable Organic Cabon; IC = Inorganic Carbon; TC = Total Carbon.

DF = Dilution Factor

b1) aqueous sample that contains greater than -1 vol. % sediment



Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled:	01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received:	01/23/12
1348 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted:	01/23/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed:	01/23/12-01/24/12

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1201573

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1201573-001H	swı	w	200	330	1	98	e7,e2
1201573-002Н	SW2	w	77	ND	1	89	e2,b1
1201573-003Н	SW3	w	110	ND	1	90	e2
1201573-004H	SW4	w	110	ND	1	94	e2,b1
1201573-005H	SW5	w	120	300	1	90	e7,e2
1201573-006Н	SW6	w	220	320	1	97	e7,e2
1201573-008H	SWII	w	260	640	1	97	e7,e2
1201573-009Н	SW12	w	120	ND	1	97	e2
			_				

Reporting Limit for DF =1; ND means not detected at or	W	50	250	μg/L
above the reporting limit	S	NA	NA	mg/Kg

^{*} water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

Angela Rydelius, Lab Manager

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 01/20/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 01/23/12
1340 vacoo rivenae	Client Contact: Helen Mawhinney	Date Extracted: 01/25/12
San Jose, CA 95118	Client P.O.: #22430	Date Analyzed: 01/25/12

m		C
Total	Suspended	Solids*

Lab ID	Client ID	Matrix	Total Suspended Solids	DF	Comments
Lab ID	Chent ID	Matrix	Total Suspended Solids	Dr	Condition
1201573-001F	SWI	w	48.0	10	
1201573-002F	SW2	w	330	50	bi
1201573-003F	SW3	w	68.0	5	
1201573-004F	SW4	w	17.6	2	
1201573-005F	SW5	w	8.40	2	
1201573-006F	SW6	w	10.8	2	
1201573-008F	SWII	w	220	25	
1201573-009F	SW12	w	3.20	2	
				-	
					-

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	1.0 mg/L	
	S	NA	

^{*} water samples reported in mg/L.

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment

QC SUMMARY REPORT FOR SW8081A

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 64120

WorkOrder: 1201573

EPA Method: SW8081A Extraction: SW3510C Spiked Sample ID: N/A									
Analyte	Sample	Sample Spiked		MSD	MS-MSD	-MSD LCS	Acceptance Criteria (%)		
, , , , , ,	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Aldrin	N/A	0.50	N/A	N/A	N/A	109	N/A	N/A	70 - 130
g-BHC	N/A	0.50	N/A	N/A	N/A	90.6	N/A	N/A	70 - 130
p,p-DDT	N/A	1.25	N/A	N/A	N/A	76.3	N/A	N/A	70 - 130
Dieldrin	N/A	1.25	N/A	N/A	N/A	100	N/A	N/A	70 - 130
Endrin	N/A	1.25	N/A	N/A	N/A	101	N/A	N/A	70 - 130
Heptachlor	N/A	0.50	N/A	N/A	N/A	102	N/A	N/A	70 - 130
%SS:	N/A	1.25	N/A	N/A	N/A	87	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64120 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-001G	01/20/12	01/23/12	01/28/12 2:11 PM	1201573-002G	01/20/12	01/23/12	01/29/12 6:15 PM
1201573-003G	01/20/12	01/23/12	01/29/12 4:22 PM	1201573-004G	01/20/12	01/23/12	01/29/12 5:18 PM
1201573-005G	01/20/12	01/23/12	01/29/12 2:29 PM	1201573-006G	01/20/12	01/23/12	01/24/12 11:32 PM
1201573-008G	01/20/12	01/23/12	01/25/12 6:03 AM	1201573-009G	01/20/12	01/23/12	01/25/12 6:59 AM

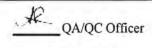
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR E1664A

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64132 WorkOrder: 1201573

EPA Method: E1664A Extraction: E1664A Spiked Sample ID: 120										
Analyte	Sample	Sample Spiked MS MS			MS-MSD	SD LCS	Acceptance Criteria (%)			
riidiyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
HEMSGT	ND	10.42	91.5	N/A	N/A	117	70 - 130	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64132 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-0011	01/20/12	01/27/12	01/30/12 12:35 AM	1201573-002I	01/20/12	01/27/12	01/30/12 12:40 AM
1201573-003I	01/20/12	01/27/12	01/30/12 12:45 AM	1201573-0041	01/20/12	01/27/12	01/30/12 12:50 AM
1201573-005I	01/20/12	01/27/12	01/30/12 12:55 AM	1201573-006I	01/20/12	01/27/12	01/30/12 1:00 AM
1201573-008I	01/20/12	01/27/12	01/30/12 1:10 AM	1201573-009I	01/20/12	01/27/12	01/30/12 1:15 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64329 WorkOrder: 1201573

EPA Method: SW8260B	Extraction: SW5030B						Spiked Sam	ple ID:	1201573-004A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Benzene	ND	10	99.1	96.7	2.46	88.9	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	99.2	95.4	3.90	84.6	70 - 130	20	70 - 130
Toluene	ND	10	96.5	95.5	1.02	87.3	70 - 130	20	70 - 130
%SS1:	87	25	97	96	0.747	96	70 - 130	20	70 - 130
%SS2:	106	25	114	113	0.400	114	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64329 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-001A	01/20/12	01/24/12	01/24/12 2:32 PM	1201573-002A	01/20/12	01/24/12	01/24/12 3:13 PM
1201573-003A	01/20/12	01/24/12	01/24/12 3:54 PM	1201573-004A	01/20/12	01/24/12	01/24/12 1:52 PM
1201573-005A	01/20/12	01/24/12	01/24/12 4:34 PM	1201573-006A	01/20/12	01/24/12	01/24/12 5:15 PM
1201573-008A	01/20/12	01/24/12	01/24/12 9:17 PM	1201573-009A	01/20/12	01/24/12	01/24/12 10:02 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

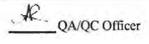
% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64215 WorkOrder: 1201573

EPA Method: E200.7 Extraction: E200.7 Spiked Sample ID: 1201141-013A										
Analyte	Sample	Spiked MS MSD MS-N		MS-MSD	LCS	S Acceptance Criteria (%)				
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Aluminum	ND	1000	94.5	100	5.86	92.2	85 - 115	20	85 - 115	
Iron	ND	1000	95.5	99	3.55	95	85 - 115	20	85 - 115	
%SS:	100	750	96	98	2.65	97	70 - 130	30	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64215 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-001D	01/20/12	01/23/12	02/01/12 4:33 PM	1201573-002D	01/20/12	01/23/12	02/01/12 10:27 PM
1201573-003D	01/20/12	01/23/12	02/01/12 10:30 PM	1201573-004D	01/20/12	01/23/12	02/01/12 10:33 PM
1201573-005D	01/20/12	01/23/12	02/01/12 10:36 PM	N. W. 1. 10 88			

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 64257

WorkOrder: 1201573

EPA Method: E200.7 Extraction: E200.7 Spiked Sample ID: 1201556-										
Analyte	Sample	Spiked	MS	200	MS-MSD % RPD	1000	Acceptance Criteria (%)			
	μg/L	μg/L	% Rec.				MS / MSD	RPD	LCS	
Aluminum	ND	1000	95.9	94.5	1.46	94.4	85 - 115	20	85 - 115	
Iron	ND	1000	100	99.7	0.550	101	85 - 115	20	85 - 115	
%SS:	100	750	94	96	2.18	107	70 - 130	30	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64257 SUMMARY

Lab iD	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-006D	01/20/12	01/23/12	02/01/12 10:39 PM	1201573-008D	01/20/12	01/23/12	02/01/12 10:44 PM
1201573-009D	01/20/12	01/23/12	02/01/12 9:24 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 64158

WorkOrder: 1201573

EPA Method: SW8015B	Extraction: SW3510C						30.74			
Analyte	Sample	Spiked MS		MSD MS-MSI	MS-MSD	LCS	Acc	Acceptance Criteria (%)		
, ,,,,,,,	μg/L	µg/L	% Rec.	% Rec.	% Rec. % RPD		MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	120	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	96	N/A	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64158 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-001H	01/20/12	01/23/12	01/23/12 10:24 PM	1201573-002H	01/20/12	01/23/12	01/24/12 9:02 AM
1201573-003H	01/20/12	01/23/12	01/24/12 7:52 AM	1201573-004H	01/20/12	01/23/12	01/23/12 7:24 PM
1201573-005H	01/20/12	01/23/12	01/24/12 6:40 AM	1201573-006H	01/20/12	01/23/12	01/24/12 9:02 AM
1201573-008H	01/20/12	01/23/12	01/24/12 6:40 AM	1201573-009H	01/20/12	01/23/12	01/23/12 8:00 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 64250

WorkOrder: 1201573

EPA Method: E200.8 Extraction: E200.8 Spiked Sample ID: 1201556-001A										
Analyte	Sample	Spiked	Spiked MS MSI		MSD MS-MSD	-MSD LCS	Acceptance Criteria (%)			
,	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Copper	25	50	104	103	0.480	108	70 - 130	20	85 - 115	
Lead	ND	50	101	101	0	99.9	70 - 130	20	85 - 115	
Vanadium	2.5	50	107	105	1.24	107	70 - 130	20	85 - 115	
Zinc	7.0	500	104	104	0	108	70 - 130	20	85 - 115	
%SS:	110	750	110	110	0	109	70 - 130	20	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64250 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-001D	01/20/12	01/23/12	01/25/12 4:01 AM	1201573-002D	01/20/12	01/23/12	01/25/12 1:51 AM
1201573-003D	01/20/12	01/23/12	01/25/12 2:22 AM	1201573-004D	01/20/12	01/23/12	01/25/12 2:28 AM
1201573-005D	01/20/12	01/23/12	01/25/12 2:34 AM	1201573-006D	01/20/12	01/23/12	01/25/12 2:40 AM
1201573-008D	01/20/12	01/23/12	01/25/12 2:15 AM	1201573-009D	01/20/12	01/23/12	01/25/12 2:53 AM

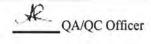
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR E410.4

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64299 WorkOrder: 1201573

EPA Method: SM5220D	Extraction: SM5220D	D Spiked Sample ID: 1201530-00							1201530-001H
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
COD	12	400	96.7	99.2	2.45	105	80 - 120	20	90 - 110

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64299 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-001C	01/20/12	01/24/12	01/24/12 1:49 PM	1201573-002C	01/20/12	01/24/12	01/24/12 1:55 PM
1201573-003C	01/20/12	01/24/12	01/24/12 2:01 PM	1201573-004F	01/20/12	01/24/12	01/24/12 2:19 PM
1201573-005F	01/20/12	01/24/12	01/24/12 2:25 PM	1201573-006C	01/20/12	01/24/12	01/24/12 2:31 PM
1201573-008C	01/20/12	01/24/12	01/24/12 2:43 PM	1201573-009C	01/20/12	01/24/12	01/24/12 2:49 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM4500H+B (pH) Matrix: W WorkOrder: 1201573

Method Name: SM4500H+B			Units: ±, pH un	its @ °C	BatchID: 64284		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	Precision	Acceptance Criteria	
1201573-001E	7.39 @ 18.5°C	1	7.40 @ 18.5°C	1	0.01	0.05	
1201573-002E	7.03 @ 17.8°C	1	7.02 @ 18.0°C	1	0.01	0.05	
1201573-003E	7.41 @ 17.1°C	1	7.42 @ 17.2°C	1	0.01	0.05	
1201573-004E	7.61 @ 17.5°C	1	7.60 @ 17.8°C	ì	0.01	0.05	
1201573-005E	7.43 @ 20.2°C	1	7.41 @ 20.4°C	1.	0.02	0.05	
1201573-006E	7.38 @ 19.9°C	1	7.40 @ 20.1°C	1	0.02	0.05	
1201573-008E	7.75 @ 19.4°C	1	7.78 @ 19.6°C	1	0.03	0.05	
1201573-009E	7.86 @ 19.8°C	1_	7.84 @ 20.0°C	1	0.02	0.05	

BATCH 64284 SUMMARY

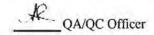
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-001E	01/20/12	01/23/12	01/23/12 2:36 PM	1201573-002E	01/20/12	01/23/12	01/23/12 2:42 PM
1201573-003E	01/20/12	01/23/12	01/23/12 2:48 PM	1201573-004E	01/20/12	01/23/12	01/23/12 2:54 PM
1201573-005E	01/20/12	01/23/12	01/23/12 3:00 PM	1201573-006E	01/20/12	01/23/12	01/23/12 3:06 PM
1201573-008E	01/20/12	01/23/12	01/23/12 3:18 PM	1201573-009E	01/20/12	01/23/12	01/23/12 3:24 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2510B (Specific Conductivity) Matrix: W WorkOrder: 1201573

Method Name: SM2510B			Units: µmhos/c	m @ 25°C		BatchID: 64288		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)		
1201573-001E	117 @ 25.0°C	1	118 @ 25.0°C	1	0.426	<2		
1201573-002E	192 @ 25.0°C	ì	193 @ 25.0°C	1	0.573	<2		
1201573-004E	176 @ 25.0°C	1	177 @ 25.0°C	1	0.738	<2		
1201573-005E	149 @ 25.0°C	1	150 @ 25.0°C	1	0.671	<2		
1201573-006E	139 @ 25.0°C	1	140 @ 25.0°C	1	1.29	<2		
1201573-008E	2010 @ 25.0°C	î -	2010 @ 25.0°C	1	0.149	<2		
1201573-009E	136 @ 25.0°C	1	137 @ 25.0°C	1	1.1	<2		

BATCH 64288 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-001E	01/20/12	2 01/23/12	01/23/12 3:40 PM	1201573-002E	01/20/13	2 01/23/12	01/23/12 3:50 PM
1201573-004E	01/20/1:	2 01/23/12	01/23/12 4:00 PM	1201573-005E	01/20/13	01/23/12	01/23/12 4:10 PM
1201573-006E	01/20/13	01/23/12	01/23/12 4:20 PM	1201573-008E	01/20/13	01/23/12	01/23/12 4:40 PM
1201573-009E	01/20/12	01/23/12	01/23/12 4:50 PM				

Test Method: SM2510B (Specific Conductivity) Matrix: W WorkOrder: 1201573

Method Name: SM2510B			Units: µmhos/c	BatchID: 64345		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1201573-003E	4350 @ 23.2°C	1	4350 @ 23.2°C	1	0.046	<2

BATCH 64345 SUMMARY

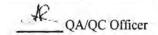
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-003E	01/20/1	01/26/12	01/26/12 5:00 PM				

Dup = Duplicate; SD = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2540D (TSS) Matrix: W WorkOrder: 1201573

Method Name: SN	M2540D		Units: mg/L		BatchID: 64318		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)	
1201573-001F	48.0	10	49.0	10	2.06	<15	
1201573-002F	330	50	330	50	0	<15	
1201573-003F	68.0	5	67.0	5	1.48	<15	
1201573-004F	17,6	2	20.4	2	14.7	<15	
1201573-005F	8.40	2	8.40	2	0	<15	
1201573-006F	10.8	2	11.4	2	5.41	<15	
1201573-008F	220	25	230	25	4.44	<15	
1201573-009F	3.20	2	3.40	2	6.06	<15	

BATCH 64318 SUMMARY

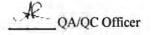
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201573-001F	01/20/12	01/25/12	01/25/12 7:20 PM	1201573-002F	01/20/12	01/25/12	01/25/12 7:30 PM
1201573-003F	01/20/12	01/25/12	01/25/12 7:40 PM	1201573-004F	01/20/12	01/25/12	01/25/12 7:50 PM
1201573-005F	01/20/13	01/25/12	01/25/12 8:00 PM	1201573-006F	01/20/12	01/25/12	01/25/12 8:10 PM
1201573-008F	01/20/12	01/25/12	01/25/12 8:30 PM	1201573-009F	01/20/12	01/25/12	01/25/12 8:40 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



Certified Laboratory Analytical Report Annual Sampling Events

February 7, 2012

Analytical Report

Environmental Technical Services	Client Project ID: LRT First Annual Stormwater	Date Sampled: 02/07/12
1548 Jacob Avenue	Sampling Event	Date Received: 02/08/12
1348 Jacob Avenue	Client Contact: Helen Mawhinney	Date Reported: 02/15/12
San Jose, CA 95118	Client P.O.: #TL22448	Date Completed: 02/15/12

WorkOrder: 1202222

February 15, 2012

Dear Helen:

Enclosed within are:

- 1) The results of the 4 analyzed samples from your project: LRT First Annual Stormwater Sampling Event,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD

PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com Telephone: (877) 252-9262 Fax: (925) 252-9269

TURN AROUND TIME

TURN AROUND TIME					B
	RUSH	24 HR	48 HR	72 HR	5 DA
0 W . DDD - DD		1 [*** **	O / 10 ***	

GeoTracker	EDF		PDF	Excel	Write Or	(DW)	
		_					

EVIN RICH	TERMINAL	"ANN	UAL ST	ORN	MWA	TE	R S	SAM	MP.	LIN	VG'	•								L	1	Che	eck i	f sa	mpl	e is	effl	uent	and	1 "J"	flag	is required
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1548 JACOB A														BE			(352															here if these
O Number: TI	L22448E-Mail	l: hmawl	hinneyets	@aol	.com									N		=	199						810									samples are
ele: (831)236				ax: (_	_	_						1150	SM	215	A CREASE (1664 / 5520						2601018									potentially
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	ET3 Info	SAMI	PLING		2	1	MA	TR	IX	F		SER	OD VED	43S (6	C10-28	28-03	OWA		_		81		P.B.	DES								
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	HCI	HNO.	Other	BTEX & TPH AS C 8260 CACTO	DIESEL	MOTOR OIL C	TOTAL PETROLEUM OIL. EBALG	TSS SM18-2540D	SPEC COND 128.3	COD HACH 8000	PH SM18 4500 H+B	100	TILCAL, CU, PE.	EPA 8081 PESTICIDES								
W-2	13"	2-7-12	916			X	П			-		T	1	X	X	7	X	X	X	X	X	X	X	X								
W-4	40.5	2-7-12	10:20			X				1	4			X	X	2	X	X	X	X	X	X	X	X								
W-5	52"	2-7-12	11:46			X			1	-		†	1	X	X	1	X	X	Х	X	X	X	X	X								
W-6	40"	2-7-12	12:01			X		1	1	-	1	1	İ	Х	X	2	X	X	X	X	X	X	X	X						1		
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**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:	ICERED Huays on ice COMMENTS:
WILLIAM WILL	2-7-12	240	ETS Fridge Hely M	GOOD CONDITION Report TPHd, TOG, O&G separately HEAD SPACE ABSENT EPA Methods can be changed by the lab
Rollinghished By: / CASTA /20	Date:	Time:	Received By:	DECHLORINATED IN LAB to what they recommended without pre-approval
Toldy / Molning	28-12	130	2 Car	PRESERVED IN LAB providing compliant with 40 CFR 136 NOTE: SW-1, SW-7, S PARR SW-10, S PARR SW-11,
Relinguished By:	Date:	Time:	Received By:	N PARR SW-12 ARE NOT DISCHARGING, AN ACTIVE
200	2/8/12	450	nd wt	Into - De not cook to report STOCKPILE IS IN DIRECT AREA OF SW-3 SO CANT SAMPLE
1		14.5		VOAS O&G METALS OTHER PRESERVATIONpH<2

McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

02/08/2012

Date Received:

WorkOrder: 1202222

ClientCode: ETS

Fax **✓** Email HardCopy ThirdParty J-flag Bill to: Requested TAT: 5 days

Helen Mawhinney Email: HMawhinneyETS@aol.com; james.jimenez Helen Mawhinney

WriteOn

WaterTrax

CC: **Environmental Technical Services**

EDF

Environmental Technical Services PO: 1548 Jacob Avenue #TL22448 1548 Jacob Avenue

ProjectNo: LRT First Annual Stormwater Sampling San Jose, CA 95118 San Jose, CA 95118 Date Printed: 02/08/2012

Excel

510-385-4308 FAX: 510-522-6259 Event james.jimenez@sbcglobal.net

				-	Requested Tests (See legend below)												
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	
1202222-001	SW-2	Water	2/7/2012 9:15	IDI	1	G	D	С	A	D	E	E	В	н	F		
1202222-002	SW-4	Water	2/7/2012 10:10		1	G	D	С	Α	D	E	E	В	H	F		
1202222-003	SW-5	Water	2/7/2012 11:46		1	G	D	С	A	D	E	E	В	н	F		
1202222-004	SW-6	Water	2/7/2012 12:01		4	G	D	С	Α	D	E	E	В	Н	F		

Test Legend:

Report to:

1	1664A_W	2	8081_W
6	METALSMS_W	7	PH_W
11	TSS_W	12	

3	ALKIMET_W
8	SC_W

4	COD_W
9	TOC_W

5	GAS8260_W
10	TPH(DMO)_W

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup.

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

pH was received OUT of hold time.

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	Environmental	Technical Services			Date a	and Tim	ne Received:	2/8/2012 3:	43:16 PM
Project Name:	LRT First Annu	al Stormwater Sampling E	Event		Check	klist cor	mpleted and	reviewed by:	Zoraida Cortez
WorkOrder N°:	1202222	Matrix: Water			Carrie	ir: <u>C</u>	Courier		
		Cha	in of Cu	stody (C	COC) Informa	tion			
Chain of custody	present?		Yes	•	No 🗌				
Chain of custody	signed when reli	nquished and received?	Yes	•	No 🗆				
Chain of custody	agrees with sam	ple labels?	Yes	•	No 🗆				
Sample IDs note	ed by Client on CC	OC?	Yes	•	No 🗆				
Date and Time of	of collection noted	by Client on COC?	Yes	•	No 🗌				
Sampler's name	noted on COC?		Yes		No 🗹				
			Sample	Receip	t Information				
Custody seals in	tact on shipping o	container/cooler?	Yes		No 🗆			NA 🗸	
Shipping contain	er/cooler in good	condition?	Yes	V	No 🗌				
Samples in prop	er containers/bott	les?	Yes	~	No 🗌				
Sample containe	ers intact?		Yes	~	No 🗆				
Sufficient sample	e volume for indic	ated test?	Yes		No 🗌				
		Sample Pres	servatio	n and H	old Time (HT)	Inform	nation		
All samples rece	ived within holding	g time?	Yes		No 🗸				
Container/Temp	Blank temperatur	re	Coole	er Temp:	5.4°C			NA 🗔	
Water - VOA via	ls have zero head	space / no bubbles?	Yes		No 🗌	No VC	DA vials subr	mitted 🔲	
Sample labels cl	necked for correct	preservation?	Yes	•	No 🗌				
Metal - pH accep	otable upon receip	ot (pH<2)?	Yes	•	No 🗆			NA 🗆	
Samples Receiv	ed on Ice?		Yes	•	No 🗆				
		(Ice Typ	pe: WE	TICE)				
* NOTE: If the "N	lo" box is checke	d, see comments below.							

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 02/07/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 02/08/12
1340 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted 02/13/12
San Jose, CA 95118	Client P.O.: #TL22448	Date Analyzed 02/14/12

Hexane Extractable Material without Silica Gel Clean Up*

extraction method: E1664			hods: E1664A			1202222
Lab ID	Client ID	Matrix	HEM	DF	% SS	Comments
1202222-001I	SW-2	w	ND	1	N/A	
1202222-0021	SW-4	w	ND	ı	N/A	
1202222-0031	SW-5	w	ND	1	N/A	
1202222-004I	SW-6	w	ND	1	N/A	
				-		
-						

Reporting Limit for DF =1; ND means not detected at or	W	5.0	mg/L
above the reporting limit	S	NA	NA

^{*} water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference). %SS = Percent Recovery of Surrogate Standard

surrogate diluted out of range

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled:	02/07/12
548 Jacob Avenue	Stormwater Sampling Event	Date Received:	02/08/12
	Client Contact: Helen Mawhinney	Date Extracted:	02/08/12
San Jose, CA 95118	Client P.O.: #TL22448	Date Analyzed:	02/09/12-02/10/12

Organochlorine Pesticides by GC-ECD (8080 Basic Target List)*

Analytical Method: SW8081A Extraction Method: SW3510C Work Order: 1202222 Lab ID 1202222-001G 1202222-002G 1202222-003G 1202222-004G Reporting Limit for SW-2 SW-4 SW-5 SW-6 Client ID DF = 1W W W Matrix W S W DF 1 1 1 1 µg/kg µg/L Compound Concentration Aldrin ND ND ND NA 0.005 a-BHC ND ND ND ND NA 0.01 **b-ВНС** ND ND ND ND NA 0.005 d-BHC ND ND 0.005 ND ND NA 0.02 g-BHC ND ND ND ND NA ND Chlordane (Technical) ND ND NA 0.1 ND NA 0.05 a-Chlordane ND ND ND ND g-Chlordane ND ND ND ND NA 0.05 p.p-DDD ND ND ND ND NA 0.01 p.p-DDE ND ND ND ND NA 0.01 p.p-DDT ND ND ND ND NA 0.01 Dieldrin ND ND ND ND NA 0.01 Endosulfan I ND ND ND ND NA 0.02 Endosulfan II ND ND ND NA 0.02 ND ND ND 0.05 Endosulfan sulfate ND ND NA ND 0.01 Endrin ND ND ND NA ND ND 0.05 Endrin aldehyde ND ND NA Endrin ketone ND ND ND ND NA 0.05 Heptachlor ND ND ND ND NA 0.01 ND ND ND ND NA 0.01 Heptachlor epoxide

Hexachtorocyclopentagiene	ND	ND	ND	ND	NA	1.0
Methoxychlor	ND	ND	ND	ND	NA	0.1
Toxaphene	ND	ND	ND	ND	NA	0.5
	- A	Surrogate Recover	ries (%)			
%SS:	92	96	96	104		
Comments						
* water camples in ug/L sail/sludge/sali	d samples in ma/ka win	e camples in na/wine	filter complex in un	filter product/oil/no	on-ganeous liquid	camples and

ND

ND

ND

0.5

NA

ND

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak.

Hexachlorobenzene

Hanaahlaaaavalaaantadiana

water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples all TCLP & SPLP extracts are reported in mg/L.

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 02/07/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 02/08/12
	Client Contact: Helen Mawhinney	Date Extracted: 02/08/12
San Jose, CA 95118	Client P.O.: #TL22448	Date Analyzed: 02/09/12

Alkali Metals by ICP*

Extraction method: E200.7 Analytical methods: E200.7 Work Order: 1202222

Lab ID	Client ID	Matrix	Extraction Type	Aluminum	Iron	DF	% SS	Comments
001D	SW-2	w	TOTAL	1200	2200	1	101	
002D	SW-4	w	TOTAL	770	1300	1	111	
003D	SW-5	w	TOTAL	360	830	Т	101	
004D	SW-6	w	TOTAL	360	770	1	104	
		-				-		
		-						
R	eporting Limit for DF =1;	w	TOTAL	50	50		μg/I	
ND means not	ND means not detected at or above the reporting limit		TOTAL	NA	NA		NA	e e

*water samples are reported in ug/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

Environmental Technical Service	Chemi I roject	ID: LRT First Aı	nnual Date Sampled:	02/07/12	1
1548 Jacob Avenue	Stormwater Sa	mpling Event	Date Received:	02/08/12	
1346 Jacob Avenue	Client Contact	Client Contact: Helen Mawhinney		02/15/12	d .
San Jose, CA 95118	Client P.O.: #	ΓL22448	Date Analyzed:	02/15/12	
Analytical Method: SM5220D	Chemical Oxy	gen Demand (CO	OD)*	Work Order:	1202222
Lab ID	Client ID	Matrix	COD	DF	Comments
1202222-001C	SW-2	w	46	1	
1202222-002C	SW-4	w	ND	1	
1202222-003C	SW-5	w	13	1	
1202222-004C	SW-6	w	ND	1	
Reporting Limit for DF = 1; ND mean		W	10 mg/L		
reporting li	mit	S	NA		

soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 02/07/12
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 02/08/12
1540 Jacob Piveliae	Client Contact: Helen Mawhinney	Date Extracted 02/09/12
San Jose, CA 95118	Client P.O.: #TL22448	Date Analyzed 02/09/12

TPH(g) by Purge & Trap and GC/MS*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 1202222

etion memou. 3 w 50	130B	Analytical includes	. 3W0200D	·	oik Older.	1202222
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Commer
001A	SW-2	w	ND	1	108	
002A	SW-4	w	ND	1	107	
003A	SW-5	w	ND	1	107	
004A	SW-6	w	ND	1	107	

Reporting Limit for DF =1;	w	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

^{*} water and vapor samples are reported in μg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in μg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 02/07/12		
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 02/08/12		
	Client Contact: Helen Mawhinney	Date Extracted: 02/09/12		
San Jose, CA 95118	Client P.O.: #TL22448	Date Analyzed: 02/09/12		

MTBE and BTEX by GC/MS*

		E and BTEX by					
Extraction Method: SW5030B	An	alytical Method: SW8266	OB		Work Order:	1202222	
Lab ID	1202222-001A	1202222-002A	1202222-003A	1202222-004A			
Client ID	SW-2	SW-4	SW-5	SW-6	Reporting DF		
Matrix	w	w	W	w			
DF	1	1	1	1	S	w	
Compound		Conce	entration		ug/kg	μg/L	
Benzene	ND	ND	ND	ND	NA	0.5	
Ethylbenzene	ND	ND	ND	ND	NA	0.5	
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5	
Toluene	ND	ND	ND	ND	NA	0.5	
Xylenes, Total	ND	ND	ND	ND	NA	0.5	
	Surre	ogate Recoveries	(%)				
%SS1:	97	98	97	97			
%SS2:	104	104	104	103			
Comments							

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 02/07/12	
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 02/08/12	
1340 Jucob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 02/08/12	
San Jose, CA 95118	Client P.O.: #TL22448	Date Analyzed: 02/08/12-02/09/12	

San Jose, CA 95118			Client P.O.: #TL22448		Date Analyzed: 02/08/12-02/09/12					
Extraction method: E200.8 E200.8 Work Order: 1202222										
Lab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Vanadium	Zinc	DF	% SS	Comment
001D	SW-2	w	TOTAL	14	7.4	11	77	1	103	
002D	SW-4	w	TOTAL	6.8	4.7	10	42	1	107	
003D	SW-5	w	TOTAL	24	8.2	5.5	78	1	106	
004D	SW-6	w	TOTAL	21	9.8	5.6	160	1	108	
						+		-		
						1				
						[[
Reporti ND mea	ng Limit for DF =1;	W	TOTAL	0.5	0.5	0.5	5.0		μg/I	
	the reporting limit	S	TOTAL	NA	NA	NA	NA		NA	

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Angela Rydelius, Lab Manager

Analytical Method: SM4500H+B

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Work Order: 1202222

Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled: 02/07/12	Ī
1548 Jacob Avenue	Stormwater Sampling Event	Date Received: 02/08/12	
1346 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 02/08/12	
San Jose, CA 95118	Client P.O.: #TL22448	Date Analyzed: 02/08/12	
			-

200	ы	и.	a	7

Analytical Method. Sivi43001	1.0			Work Order.	1202222
Lab ID	Client ID	Matrix	pH	DF	Comment
1202222-001E	SW-2	w	7.76 @ 18.0°C	1	
1202222-002E	SW-4	w	7.70 @ 17.0°C	1	
1202222-003E	SW-5	w	7.50 @ 16.1°C	1	
1202222-004E	SW-6	w	7.59 @ 16.3°C	1	

^{*} According the formal method, this is "field test" with a 15 minute Hold Time. However, as this is unrealistically short for commercial environmental analysis, MAI has designated a 24 hour hold time for aqueous samples.

DF = Dilution Factor

Environmental Technical Service		Client Project ID: LRT First Annual Stormwater Sampling Event		Date Sampled:	02/07/12	
1548 Jacob Avenue	Stormwater Sa	impling Event		Date Received: 02/08/12		
15 to succe rivenue	Client Contact	: Helen Maw	hinney	Date Extracted:	02/09/12	
San Jose, CA 95118	Client P.O.: #	TL22448		Date Analyzed:	02/09/12	
Analytical Method: SM2510B	Specific	c Conductivit	y*		Work Order:	1202222
	lient ID	Matrix	Specific	c Conductivity	DF	Comments
1202222-001E	SW-2	w	157	@ 25.0°C	1	
1202222-002E	SW-4	w	99.4	₩ @ 25.0°C	1	
1202222-003E	SW-5	w	106	@ 25.0°C	1	
1202222-004E	SW-6	w	105	@ 25.0°C	1	
					-	-
					-	
					-	
					-	
					-	
					-	
					-	
		w			-	
Reporting Limit for DF = 1; ND means reporting limit	it for DF = 1; ND means not detected at or above the reporting limit		10 μmh	os/cm @ 25°C NA		
DF = Dilution Factor		S		NA	1	

	when Quality	Counts	- 1		0	7.0101	
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118			Client Project ID: LRT First Annual Stormwater Sampling Event Client Contact: Helen Mawhinney		02/07/12		
		Stormwater Sampl			Date Received: 02/08/12		
		Client Contact: H			Date Extracted: 02/13/12		
		Client P.O.: #TL22448		Date Analyzed:	02/13/12		
Analytical Method: E415.3	To	tal Organic Carbon (T	OC) reported as I	NPOC*	Work Order	: 1202222	
Lab ID	Client I	D N	Matrix	TOC	DF	Comments	
1202222-001B	SW-2		w	5.3	1		
1202222-002B	SW-4		w	1.5	1		

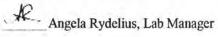
1202222-001B	SW-2	W	5.3	1
1202222-002B	SW-4	w	1.5	1
1202222-003B	SW-5	w	3.8	1
1202222-004B	SW-6	w	3.9	1

Reporting Limit for DF = 1; ND means not detected at or above the	w	0.3 mg/L	
reporting limit	S	NA	

^{*} water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3. TOC is reported as NPOC.

TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon; POC = Purgeable Organic Cabon; IC = Inorganic Carbon; TC = Total Carbon.

DF = Dilution Factor



Environmental Technical Services	Client Project ID: LRT First Annual	Date Sampled:	02/07/12	
1548 Jacob Avenue	Stormwater Sampling Event	Date Received:	02/08/12	
	Client Contact: Helen Mawhinney	Date Extracted:	02/08/12	
San Jose, CA 95118	Client P.O.: #TL22448	Date Analyzed:	02/08/12	

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW35	10C	Analytical m	ethods: SW8015B		1	Work Order:	1202222
Lab ID	Client ID	Matrix	TPH-Diesel (Cl0-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1202222-001H	SW-2	w	75	ND	1	98	e2
1202222-002H	SW-4	w	ND	ND	1	98	
1202222-003H	SW-5	w	97	ND	1	92	e2
1202222-004H	SW-6	w	80	ND	1	99	e2
		-			1	-	
					1		
					T.		

Reporting Limit for DF =1; ND means not detected at or	w	50	250	μg/L
above the reporting limit	S	NA	NA	mg/Kg

^{*} water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: e2) diesel range compounds are significant; no recognizable pattern

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644

	Quanty Counts"			1			
Environmental Technical Service		t ID: LRT First Annual Sampling Event		Date Sampled: 02/07/12			
1548 Jacob Avenue		1 0		Date Received:	02/08/12		
	Client Contact	: Helen Maw	hinney	Date Extracted:	02/10/12-	2-02/13/12	
San Jose, CA 95118	Client P.O.: #7	ΓL22448		Date Analyzed: 02/10/12-		-02/13/12	
Analytical Method: SM2540D	Total Su	spended Soli	ds*		Work Order.	1202222	
Lab ID	Client ID	Matrix	Total S	uspended Solids	DF	Comments	
1202222-001F	SW-2	w		73.5	5		
1202222-002F	SW-4	w		16.4	2		
1202222-003F	SW-5	w		15.4	2		
1202222-004F	SW-6	w		12.6	2		
					-		
					-		
Reporting Limit for DF = 1; ND mean reporting li	s not detected at or above the	W		1.0 mg/L			
reporting it	illit	S		NA			

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64705 WorkOrder: 1202222

EPA Method: SW8015B	Extraction: SW3510C	action: SW3510C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked µg/L	MS % Rec.		MS-MSD % RPD	09.5	Acceptance Criteria (%)			
4	μg/L						MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	104	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	93	N/A	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

BATCH 64705 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001H	02/07/12 9:15 AM	02/08/12	02/08/12 7:49 PM	1202222-002H	02/07/12 10:10 AM	02/08/12	02/08/12 8:56 PM
1202222-003H	02/07/12 11:46 AM	02/08/12	02/08/12 8:47 PM	1202222-004H	02/07/12 12:01 PM	02/08/12	02/08/12 8:47 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E1664A

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64752 WorkOrder: 1202222

EPA Method: E1664A	Extraction: E1664A								
Analyte	Sample	Spiked	MS MSD MS-MSD LCS A		Acc	ceptance Criteria (%)			
, may is	mg/L	mg/L % F	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
HEMSGT	N/A	10.42	N/A	N/A	N/A	90.3	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 64752 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001I	02/07/12 9:15 AM	02/13/12	02/14/12 10:25 AM	1202222-002I	02/07/12 10:10 AM	02/13/12	02/14/12 10:30 AM
1202222-003I	02/07/12 11:46 AM	02/13/12	02/14/12 10:35 AM	1202222-004I	02/07/12 12:01 PM	02/13/12	02/14/12 10:40 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR SW8081A

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64742 WorkOrder: 1202222

EPA Method: SW8081A	Extraction: SW3510C					1	Spiked Sam	ple ID:	N/A
Analyte	Sample	Sample Spiked N		MSD	MS-MSD	MS-MSD LCS Acceptance Criter			Criteria (%)
,	μg/L	µg/L	% Rec. % Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Aldrin	N/A	0.50	N/A	N/A	N/A	104	N/A	N/A	70 - 130
g-BHC	N/A	0.50	N/A	N/A	N/A	96.2	N/A	N/A	70 - 130
p,p-DDT	N/A	1.25	N/A	N/A	N/A	92.7	N/A	N/A	70 - 130
Dieldrin	N/A	1.25	N/A	N/A	N/A	111	N/A	N/A	70 - 130
Endrin	N/A	1.25	N/A	N/A	N/A	113	N/A	N/A	70 - 130
Heptachlor	N/A	0.50	N/A	N/A	N/A	93.3	N/A	N/A	70 - 130
%SS:	N/A	1.25	N/A	N/A	N/A	111	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64742 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001G	02/07/12 9:15 AM	02/08/12	02/10/12 10:05 PM	1202222-002G	02/07/12 10:10 AM	02/08/12	02/10/12 12:40 AM
1202222-003G	02/07/12 11:46 AM	02/08/12	02/10/12 1:36 AM	1202222-004G	02/07/12 12:01 PM	02/08/12	02/09/12 9:35 PM

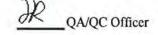
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64750 WorkOrder: 1202222

EPA Method: E200.7 Extraction: E200.7 Spiked Sample ID: 1202104-003/										
Analyte	Sample	Sample Spiked MS MS		MSD	MS-MSD	LCS	Acceptance Criteria (%)			
7.11.17.5	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Aluminum	ND	1000	92.9	91.4	1.57	88.8	85 - 115	20	85 - 115	
Iron	ND	1000	93	92.5	0.636	87.5	85 - 115	20	85 - 115	
%SS:	98	750	95	97	1.60	103	70 - 130	30	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64750 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001D	02/07/12 9:15 AM	02/08/12	02/09/12 11:48 PM	1202222-002D	02/07/12 10:10 AM	02/08/12	02/09/12 11:51 PM
1202222-003D	02/07/12 11:46 AM	02/08/12	02/09/12 11:54 PM	1202222-004D	02/07/12 12:01 PM	02/08/12	02/09/12 11:57 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E410.4

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64887 WorkOrder: 1202222

EPA Method: SM5220D	Extraction: SM5220D						Spiked Sam	ple ID:	1202212-003A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acce	eptance	Criteria (%)
,,	mg/L	mg/L	% Rec.	. % Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
COD	130	400	90.7	86.9	3.11	106	80 - 120	20	90 - 110

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 64887 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001C	02/07/12 9:15 AM	02/15/12	02/15/12 10:21 AM	1202222-002C	02/07/12 10:10 AM	02/15/12	02/15/12 10:27 AM
1202222-003C	02/07/12 11:46 AM	02/15/12	02/15/12 10:33 AM	1202222-004C	02/07/12 12:01 PM	02/15/12	02/15/12 10:39 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64805 WorkOrder: 1202222

EPA Method: SW8260B	Extraction: SW5030B						Spiked Sam	ple ID:	1202222-001A
Analyte	Sample	Sample Spiked		MS MSD		LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Benzene	ND	10	94.6	94.7	0.123	97.6	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	95.8	98.8	3.13	95.9	70 - 130	20	70 - 130
Toluene	ND	10	92.1	92.2	0.149	95.4	70 - 130	20	70 - 130
%SS1:	97	25	98	100	2.35	99	70 - 130	20	70 - 130
%SS2:	104	25	104	105	0.613	107	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64805 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001A	02/07/12 9:15 AM	02/09/12	02/09/12 12:35 PM	1202222-002A	02/07/12 10:10 AM	02/09/12	02/09/12 1:21 PM
1202222-003A	02/07/12 11:46 AM	02/09/12	02/09/12 2:01 PM	1202222-004A	02/07/12 12:01 PM	02/09/12	02/09/12 2:41 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

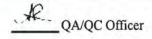
% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64721 WorkOrder: 1202222

EPA Method: E200.8 Extraction: E200.8 Spiked Sample ID: 1202104-002A											
Analyte	Sample	Spiked	MS MSD		MS-MSD	LCS	Acceptance Criteria (%)				
,	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS		
Copper	21	50	103	101	1.19	106	85 - 115	20	85 - 115		
Lead	ND	50	95.9	95	0.939	96.9	85 - 115	20	85 - 115		
Vanadium	1.8	50	101	102	0.854	102	85 - 115	20	85 - 115		
Zinc	5.4	500	104	103	1.36	107	85 - 115	20	85 - 115		
%SS:	107	750	106	104	1.78	105	70 - 130	20	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64721 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001D	02/07/12 9:15 AM	02/08/12	02/09/12 2:56 PM	1202222-002D	02/07/12 10:10 AM	02/08/12	02/08/12 11:30 PM
1202222-003D	02/07/12 11:46 AM	02/08/12	02/08/12 11:55 PM	1202222-004D	02/07/12 12:01 PM	02/08/12	02/09/12 12:01 AM

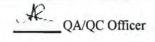
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM4500H+B (pH) Matrix: W

WorkOrder: 1202222

Method Name: \$	SM4500H+B		Units: ±, pH un	its @ °C		BatchID: 64724
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	Precision	Acceptance Criteria
1202222-001E	7.76 @ 18.0°C	ī	7.76 @ 18.2°C	1	0	0.05
1202222-002E	7.70 @ 17.0°C	1	7.67 @ 17.1°C	1	0.03	0.05
1202222-003E	7.50 @ 16.1°C	1	7.50 @ 16.4°C	1	0	0.05
1202222-004E	7.59 @ 16.3°C	1	7.63 @ 16.4°C	1	0.04	0.05

BATCH 64724 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001E	02/07/12 9:15 AM	02/08/12	02/08/12 7:30 PM	1202222-002E	02/07/12 10:10 AM	02/08/12	02/08/12 7:36 PM
1202222-003E	02/07/12 11:46 AM	02/08/12	02/08/12 7:42 PM	1202222-004E	02/07/12 12:01 PM	02/08/12	02/08/12 7:48 PM

Test Method: SM2510B (Specific Conductivity) Matrix: W WorkOrder: 1202222

Method Name: \$	6M2510B		Units: µmhos/c	m @ 25°C		BatchID: 64723		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)		
1202222-001E	157 @ 25.0°C	1	158 @ 25.0°C	1	0.764	<2		
1202222-002E	99.4 @ 25.0°C	1	101 @ 25.0°C	1	1.73	<2		
1202222-003E	106 @ 25.0°C	1	107 @ 25.0°C	1	0.656	<2		
1202222-004E	105 @ 25.0°C	1	105 @ 25.0°C	1	0.762	<2		

BATCH 64723 SUMMARY

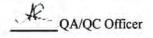
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001E	02/07/12 9:15 AM	1 02/09/12	02/09/12 7:30 PM	1202222-002E	02/07/12 10:10 AM	1 02/09/12	02/09/12 7:40 PM
1202222-003E	02/07/12 11:46 AM	02/09/12	02/09/12 7:50 PM	1202222-004E	02/07/12 12:01 PM	1 02/09/12	02/09/12 8:00 PM

Dup = Duplicate; SD = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2540D (TSS)

Matrix: W

WorkOrder: 1202222

Method Name: Si	M2540D		Units: mg/L	Units: mg/L		BatchID: 64848		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)		
1202222-001F	73.5	5	79.0	5	7.21	<15		
1202222-002F	16.4	2	15.5	5	5.64	<15		
1202222-003F	15.4	2	15.6	2	1.29	<15		
1202222-004F	12.6	2	12.2	2	3.23	<15		

BATCH 64848 SUMMARY

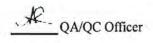
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001F	02/07/12 9:15 AM	02/10/12	02/10/12 6:35 PM	1202222-002F	02/07/12 10:10 AM	02/13/12	02/13/12 5:35 PM
1202222-003F	02/07/12 11:46 AM	02/10/12	02/10/12 6:55 PM	1202222-004F	02/07/12 12:01 PM	02/10/12	02/10/12 7:05 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 64884

WorkOrder: 1202222

EPA Method: E415.3 Extraction: E415.3 Spiked Sample ID: 1202									1202189-001D
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance		
, , , , , ,	mg/L	mg/L	% Rec.	c. % Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
тос	8.5	50	96.9	96.9	0	98	70 - 130	20	80 - 120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 64884 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202222-001B	02/07/12 9:15 AM	02/13/12	02/13/12 8:51 PM	1202222-002B	02/07/12 10:10 AM	02/13/12	02/13/12 9:13 PM
1202222-003B	02/07/12 11:46 AM	02/13/12	02/13/12 9:29 PM	1202222-004B	02/07/12 12:01 PM	02/13/12	02/13/12 9:47 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Certified Laboratory Analytical Report Annual Sampling Events

March 14, 2012

Analytical Report

Environmental Technical Services	Client Project ID: LRT Annual March 2012	Date Sampled: 03/14/12
1548 Jacob Avenue		Date Received: 03/15/12
1546 Jacob Avenue	Client Contact: Helen Mawhinney	Date Reported: 03/27/12
San Jose, CA 95118	Client P.O.: #TL22474	Date Completed: 03/26/12

WorkOrder: 1203539

March 27, 2012

Dear Helen:

Enclosed within are:

- 1) The results of the 8 analyzed samples from your project: LRT Annual March 2012,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD Website: www.mccampbell.com Email: main@mccampbell.com Telephone: (877) 252-9262 TURN AROUND TIME RUSH 24 HR 48 HR 72 HR GeoTracker EDF □ PDF □ Excel □ Write On (DW) □ Check if sample is effluent and "J" flag is required Report To: ENVIRON TACH SECULES Bill To: 675 Analysis Request Other Comments Company: Helen Mauhinney EPA 524.2 / 624 / 8260 (448Ca) TO HG BITCH ALE **Indicate 1548 JACOB AVE EPA 668 / 8082 PCB's ONLY; Areclors / Congeners SANCESE (A 95118 E-Mail: h mawhinney at Sell Tele: (331) 236-9221 Fax: () Gol.com Project #: / ET ANNUAL MARCH ZOIZ Project Name: / ET ANNUAL MARCH Project Location: Legyin Rich Terminal 402 wright Aug 2012 Sampler Signature: (1111) Musulmully Total Petroleum Oil & Grease (1664 / 5629 F/R&F) here if these samples are sample for DISSOLVED metals analysis CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) potentially EPA 502.2 / 601 / 8010 / 8021 (HVOCs) dangerous to EPA 515 / 8151 (Acidic C) Herbicides) EPA 8270 SIM / 8310 (PAHs / PNAs) handle: EPA 505/ 608 / 8081 (CI Pesticides) EPA 525.2 / 625 / 8270 (SVOCs) METHOD MATRIX SAMPLING PRESERVED Type Containers # Containers LOCATION/ SAMPLE ID TPH as Diesel Field Point Time Name Date HNO, HCL SW-1 SW-2 SW-3 SW-4 SW-5 SW-6 1175 S PARR SW-11 7:45 N PARR SW-12 **MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely. Relinguished By Time: Received By: GOOD CONDITION GOOD CONDITION_ HEAD SPACE ABSENT_ DECHLORINATED IN LAB_ APPROPRIATE CONTAINERS THE AU, CU, FE, PB, VN, ZN ES FRICE Relinquished By: Received By:

Received By:

Relinguished By:

APPROPRIATE CONTAINERS

VOAS O&G METALS OTHER

pH<2

PRESERVED IN LAB

PRESERVATION

McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of

WorkOrder: 1203539

ClientCode: ETS

WaterTrax WriteOn EDF Excel

HMawhinneyETS@aol.com; james.jimenez

HardCopy ThirdParty

__ J-flag

5 days

Report to:

Helen Mawhinney

Environmental Technical Services

1548 Jacob Avenue

San Jose, CA 95118

510-385-4308

FAX: 510-522-6259

Email:

ProjectNo: LRT Annual March 2012

CC:

PO:

Bill to:

Helen Mawhinney

Environmental Technical Services

1548 Jacob Avenue

San Jose, CA 95118

Date Received:

03/15/2012

Date Printed:

Requested TAT:

03/16/2012

								Re	quested	Tests (See leg	end bel	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1203539-001	SW-1	Water	3/14/2012 7:40		E	F	- 1	С	Α	1	G	В	D	н		
1203539-002	SW-2	Water	3/14/2012 7:10		E	F	1	С	Α	1	G	В	D	Н		
1203539-003	SW-3	Water	3/14/2012 14:10		E	F	-1	С	Α	1	G	В	D	н		
1203539-004	SW-4	Water	3/14/2012 13:05		Ε	F	1	С	Α	1	G	В	D	Н		
1203539-005	SW-5	Water	3/14/2012 13:15		E	F	1	С	Α	1	G	В	D	H		
1203539-006	SW-6	Water	3/14/2012 13:25		E	F	1	С	Α	- 1	G	В	D	н		
1203539-007	S PARR SW-11	Water	3/14/2012 14:45		Ε	F	- 1	С	Α	- 1	G	В	D	н		-
1203539-008	N PARR SW-12	Water	3/14/2012 15:10		E	F	-1	С	Α	-1	G	В	D	Н		

Test Legend:

1	1664A_SG_W	
6	METALSMS_W	
11		

2	8081PCB_W
7	sc_w
2	

3	ALKIMET_W
8	TOC_W

4	COD_W
9	TPH(DMO)_W

5	GAS8260_W
10	TSS W

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A contain testgroup.

Prepared by: Melissa Valles

Comments:

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: Environmental Technical Services			Date	Date and Time Received: 3/15/2012 6:47:45 PM				
Project Name:	LRT Annual Ma	arch 2012			Check	list completed and re	eviewed by:	Melissa Valles
WorkOrder N°:	1203539	Matrix: Water			Carrie	r: Rob Pringle (A	(A) Courier	
		Cha	ain of Cu	stody (C	OC) Informat	tion		
Chain of custody	present?		Yes	•	No 🗆			
Chain of custody	signed when rel	inquished and received?	Yes	•	No 🗆			
Chain of custody	agrees with sam	ple labels?	Yes	•	No 🗌			
Sample IDs noted	d by Client on Co	OC?	Yes	•	No 🗆			
Date and Time of	f collection noted	by Client on COC?	Yes	•	No 🗆			
Sampler's name	noted on COC?		Yes	•	No 🗆			
			Sample	Receipt	Information			
Custody seals intact on shipping container/cooler?			Yes		No 🗌		NA 🗸	
Shipping container/cooler in good condition?		Yes	1	No 🗌				
Samples in prope	er containers/bot	tles?	Yes	~	No 🗌			
Sample container	rs intact?		Yes	V	No 🗆			
Sufficient sample	volume for indic	cated test?	Yes		No 🗆			
		Sample Pre	servatio	and Ho	old Time (HT)	Information		
All samples recei	ved within holdin	g time?	Yes	•	No 🗆			
Container/Temp I	Blank temperatu	re	Coole	Temp:	1.2°C		NA 🗌	
Water - VOA vial	s have zero head	dspace / no bubbles?	Yes	1	No	No VOA vials subm	nitted 🗌	
Sample labels ch	ecked for correc	t preservation?	Yes	•	No			
Metal - pH accep	table upon recei	pt (pH<2)?	Yes		No 🗌		NA 🗌	
Samples Receive	ed on Ice?		Yes	•	No 🗌			
		(Ice Tv	pe: WE	TICE)			

Environmental Technical Services	Client Project ID: LRT Annual March	Date Sampled: 03/14/12		
1548 Jacob Avenue	2012	Date Received: 03/15/12		
1540 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted 03/21/12		
San Jose, CA 95118	Client P.O.: #TL22474	Date Analyzed 03/22/12		

Hexane Extractable Material with Silica Gel Clean Up*

Extraction method: E16	64A	Analytical methods: E1664A			Work Order: 1203539			
Lab ID	Client ID	Matrix	HEMSGT	DF	% SS	Comments		
1203539-001E	SW-1	w	ND	10	N/A			
1203539-002E	SW-2	w	ND	1	N/A			
1203539-003E	SW-3	w	ND	_11	N/A			
1203539-004E	SW-4	w	ND	1	N/A			
1203539-005E	SW-5	w	ND	1	N/A			
1203539-006E	SW-6	w	ND	1	N/A			
1203539-007E	S PARR SW-11	w	ND	1	N/A			
1203539-008E	N PARR SW-12	w	ND	1	N/A			

Reporting Limit for DF =1; ND means not detected at or	W	5.0	mg/L
above the reporting limit	S	NA	NA

^{*} water samples are reported in mg/L; reporting limit may change due to variable water sample volume.

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

%SS = Percent Recovery of Surrogate Standard

surrogate diluted out of range or not applicable to this sample.

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644

Environmental Technical Services	Client Project ID: LRT Annual March	Date Sampled: 03/14/12
1548 Jacob Avenue	2012	Date Received: 03/15/12
	Client Contact: Helen Mawhinney	Date Extracted: 03/15/12
San Jose, CA 95118	Client P.O.: #TL22474	Date Analyzed: 03/25/12

Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*

xtraction Method: SW3510C Analytical Method: SW8081A/8082 Work Order: 1203539

Extraction Method: SW3510C	An	alytical Method: SW808	IA/8082		Work Order: 1	203539
Lab ID	1203539-001F	1203539-002F	1203539-003F	1203539-004F	Reporting Limit for	
Client ID	SW-1	SW-2	SW-3	SW-4		=1
Matrix	W	W	W	W	s	w
DF	1	1	1	1	3	w
Compound	-	Conc	entration		μg/kg	μg/L
Aldrin	ND	ND	ND	ND	NA	0.005
a-BHC	ND	ND	ND	ND	NA	0.01
ь-внс	ND	ND	ND	ND	NA	0.005
d-BHC	ND	ND	ND	ND	NA.	0.005
g-BHC	ND	ND	ND	ND	NA	0.02
Chlordane (Technical)	ND	ND	ND	ND	NA	0.1
a-Chlordane	ND	ND	ND	ND	NA	0.05
g-Chlordane	ND	ND	ND	ND	NA	0.05
p,p-DDD	ND	ND	ND	ND	NA	0.01
p,p-DDE	ND	ND	ND	ND	NA	0.01
p,p-DDT	ND	ND	ND	ND	NA	0.01
Dieldrin	ND	ND	ND	ND	NA	0.01
Endosulfan I	ND	ND	ND	ND	NA	0.02
Endosulfan II	ND	ND	ND	ND	NA	0.02
Endosulfan sulfate	ND	ND	ND	ND	NA	0.05
Endrin	ND	ND	ND	ND	NA	0.01
Endrin aldehyde	ND	ND	ND	ND	NA	0.05
Endrin ketone	ND	ND	ND	ND	NA	0.05
Heptachlor	ND	ND	ND	ND	NA	0.01
Heptachlor epoxide	ND	ND	ND	ND	NA	0.01
Hexachlorobenzene	ND	ND	ND	ND	NA	0.5
Hexachlorocyclopentadiene	ND	ND	ND	ND	NA	1.0
Methoxychlor	ND	ND	ND	ND	NA	0.1
Toxaphene	ND	ND	ND	ND	NA	0.5
Aroclor1016	ND	ND	ND	ND	NA	0.5
Aroclor1221	ND	ND	ND	ND	NA	0.5
Aroclor1232	ND	ND	ND	ND	NA	0.5
Aroclor1242	ND	ND	ND	ND	NA	0.5
Aroclor1248	ND	ND	ND	ND	NA	0.5
Aroclor1254	ND	ND	ND	ND	NA	0.5
Aroclor1260	ND	ND	ND	ND	NA	0.5
PCBs, total	ND	ND	ND	ND	NA	0.5
		Surrogate Recover	ies (%)			
%SS:	82	82	83	83		
Comments						

^{*} water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak.

Environmental Technical Services	Client Project ID: LRT Annual March	Date Sampled: 03/14/12
1548 Jacob Avenue	2012	Date Received: 03/15/12
	Client Contact: Helen Mawhinney	Date Extracted: 03/15/12
San Jose, CA 95118	Client P.O.: #TL22474	Date Analyzed: 03/25/12

Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*

extraction Method: SW3510C Analytical Method: SW8081A/8082 Work Order: 120353

Extraction Method: SW3510C	An	alytical Method: SW808	1A/8082		Work Order: 12	203539
Lab ID	1203539-005F	1203539-006F	1203539-007F	1203539-008F	Descripe	Timis for
Client ID	SW-5	SW-6	S PARR SW-11	N PARR SW-12	Reporting Limit for DF =1	
Matrix	W	W	W	W	S	w
DF	1	1	1	ı	3	W
Compound		Conc	entration		μg/kg	μg/L
Aldrin	ND	ND	ND	ND	NA	0.005
a-BHC	ND	ND	ND	ND	NA	0.01
b-BHC	ND	ND	ND	ND	NA	0.005
d-BHC	ND	ND	ND	ND	NA	0.005
g-BHC	ND	ND	ND	ND	NA	0.02
Chlordane (Technical)	ND	ND	ND	ND	NA	0.1
a-Chlordane	ND	ND	ND	ND	NA	0.05
g-Chlordane	ND	ND	ND	ND	NA	0.05
p,p-DDD	ND	ND	ND	ND	NA	0.01
p.p-DDE	ND	0.012	ND	ND	NA	0.01
p,p-DDT	ND	0.012	ND	ND	NA	0.01
Dieldrin	ND	ND	ND	ND	NA	0.01
Endosulfan I	ND	ND	ND	ND	NA	0.02
Endosulfan II	ND	ND	ND	ND	NA	0.02
Endosulfan sulfate	ND	ND	ND	ND	NA	0.05
Endrin	ND	ND	ND	ND	NA	0.01
Endrin aldehyde	ND	ND	ND	ND	NA	0.05
Endrin ketone	ND	ND	ND	ND	NA	0.05
Heptachlor	ND	ND	ND	ND	NA	0.01
Heptachlor epoxide	ND	ND	ND	ND	NA	0.01
Hexachlorobenzene	ND	ND	ND	ND	NA	0.5
Hexachlorocyclopentadiene	ND	ND	ND	ND	NA	1.0
Methoxychlor	ND	ND	ND	ND	NA	0.1
Toxaphene	ND	ND	ND	ND	NA	0.5
Aroclor1016	ND	ND	ND	ND	NA	0.5
Aroclor1221	ND	ND	ND	ND	NA	0.5
Aroclor1232	ND	ND	ND	ND	NA	0.5
Aroclor1242	ND	ND	ND	ND	NA	0.5
Aroclor1248	ND	ND	ND	ND	NA	0.5
Aroclor1254	ND	ND	ND	ND	NA	0.5
Aroclor1260	ND	ND	ND	ND	NA	0.5
PCBs, total	ND	ND	ND	ND	NA	0.5
		Surrogate Recover	ries (%)			
%SS:	83	83	86	83		
Comments						

^{*} water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

[#] surrogate diluted out of range or surrogate coelutes with another peak.

Environmental Technical Services	Client Project ID: LRT Annual March	Date Sampled: 03/14/12
1548 Jacob Avenue	2012	Date Received: 03/15/12
1346 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 03/15/12
San Jose, CA 95118	Client P.O.:	Date Analyzed: 03/20/12

Alkali Metals by ICP*

Extraction method: E200.7 Analytical methods: E200.7 Work Order: 1203539

Lab ID	Client ID	Matrix	Extraction Type	Aluminum	Iron	DF	% SS	Comments
0011	SW-1	w	TOTAL	250	750	1	100	
0021	SW-2	w	TOTAL	2400	5600	1	101	
0031	SW-3	w	TOTAL	320	1900	í	101	
0041	SW-4	w	TOTAL	600	2300	1	109	
0051	SW-5	w	TOTAL	380	1300	t	106	
0061	SW-6	w	TOTAL	190	360	1	106	
0071	S PARR SW-11	w	TOTAL	600	1200	I	103	
0081	N PARR SW-12	w	TOTAL	350	740	1	104	
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		w	TOTAL	50	20		µg/I	
		S	TOTAL	NA	NA		NA	

*water samples are reported in ug/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269

	"When Quality	Counts"	nttp	J/www.mccan	npoeu com / E-mau: main@	mccampbell.c	om
Environmental Technical Services			Client Project ID: LRT Annual March 2012		Date Sampled:	03/14/12	
1548 Jacob Avenue		2012			Date Received: 03/15/12		
		Client Contact:	Helen Mawhin	ney	Date Extracted: 03/22/12		
San Jose, CA 9511	18	Client P.O.: #TL	22474		Date Analyzed:	03/22/12	
Analytical Method: SMS	5220 D	Chemical Oxygo	en Demand (C	COD)*		Work Order:	1203539
Lab ID	Client II	D	Matrix		COD	DF	Comment
1203539-001C	SW-1		w		22	1	
1203539-002C	SW-2		w		210	1	
1203539-003C	SW-3		w	43		1	
1203539-004C	SW-4		w	12		1	
1203539-005C	SW-5		w	12		1	
1203539-006C	SW-6		w	ND		1	
1203539-007C	S PARR SW-11		w	200		1	
1203539-008C	N PARR SV	V-12	w		22	1	
		1.0				-1-	1

Reporting Limit for DF = 1; ND means not detected at or above the	W	10 mg/L
reporting limit	S	NA

*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, filter samples in μg/filter.



Environmental Technical Services	Client Project ID: LRT Annual March	Date Sampled: 03/14/12			
1548 Jacob Avenue	2012	Date Received: 03/15/12			
1546 Sucoo Fivendo	Client Contact: Helen Mawhinney	Date Extracted 03/16/12-03/17/12			
San Jose, CA 95118	Client P.O.:	Date Analyzed 03/16/12-03/17/12			

TPH(g) by Purge & Trap and GC/MS*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 1203539

chon nemod. Sw.	5050B	Analytical method	s. 3W0200D	YV	ork Order.	1203339
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Commen
001A	SW-1	w	ND	1	119	
002A	SW-2	w	ND	Ī	114	
003A	SW-3	w	ND	1	116	
004A	SW-4	w	ND	1	119	
005A	SW-5	w	ND	1	118	
006A	SW-6	w	ND	1	117)
007A	S PARR SW-11	w	ND	1	120	
008A	N PARR SW-12	w	ND	1	119	
-						
-						
				-		
-						

Reporting Limit for DF =1; ND means not detected at or	w	50	μg/L
above the reporting limit	S	NA	NA

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Environmental Technical Services	Client Project ID: LRT Annual March	Date Sampled: 03/14/12		
1548 Jacob Avenue	2012	Date Received: 03/15/12		
1540 Jucob Pivenue	Client Contact: Helen Mawhinney	Date Extracted: 03/16/12-03/17/12		
San Jose, CA 95118	Client P.O.:	Date Analyzed: 03/16/12-03/17/12		

Extraction Method: SW5030B		E and BTEX by alytical Method: SW826			Work Order:	1203539	
Lab ID	1203539-001A	1203539-002A	1203539-003A	1203539-004A			
Client ID	SW-1	SW-2	SW-3	SW-4	Reporting Limit fo DF =1		
Matrix	W	w	w	W			
DF	1	1	1	1	S	w	
Compound		Conce	entration		ug/kg	μg/L	
Benzene	ND	ND	ND	ND	NA	0.5	
Ethylbenzene	ND	ND	ND	ND	NA	0.5	
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5	
Toluene	ND	ND	ND	ND	NA	0.5	
Xylenes, Total	ND	ND	ND	ND	NA	0.5	
	Surro	ogate Recoveries	(%)				
%SS1:	108	108	108	110			
%SS2:	108	103	104	107			
Comments					7		

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Environmental Technical Services	Client Project ID: LRT Annual March	Date Sampled: 03/14/12
1548 Jacob Avenue	2012	Date Received: 03/15/12
1340 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 03/16/12-03/17/12
San Jose, CA 95118	Client P.O.:	Date Analyzed: 03/16/12-03/17/12

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1203539 Lab ID 1203539-005A 1203539-006A 1203539-007A 1203539-008A S PARR SW-11 N PARR SW-12 SW-5 SW-6 Client ID Reporting Limit for DF =1 Matrix W W W W DF 1 1 1 1 S W Compound Concentration ug/kg µg/L Benzene ND ND ND ND NA 0.5 Ethylbenzene ND ND ND ND NA 0.5 Methyl-t-butyl ether (MTBE) ND ND ND ND NA 0.5 Toluene ND ND ND ND 0.5 NA Xylenes, Total ND ND ND ND NA 0.5 Surrogate Recoveries (%) %SS1: 111 109 110 110 %SS2: 107 106 108 107 Comments

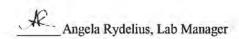
* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



Environmental Technical Services	Client Project ID: LRT Annual March 2012	Date Sampled: 03/14/12
1548 Jacob Avenue		Date Received: 03/15/12
	Client Contact: Helen Mawhinney	Date Extracted: 03/15/12
San Jose, CA 95118	Client P.O.:	Date Analyzed: 03/17/12-03/19/12

Extraction m	ethod: E200.8		A	Metals*	E200.8			Work C	Order: 12	03539
Lab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Vanadium	Zinc	DF	% SS	Commen
0011	SW-1	w	TOTAL	7.0	12	2.5	140	1	101	
0021	SW-2	w	TOTAL	9.5	12	24	100	1	103	
0031	SW-3	w	TOTAL	18	15	10	260	1	103	
0041	SW-4	w	TOTAL	22	17	5.5	77	1	102	
0051	SW-5	w	TOTAL	25	13	4.0	61	1	101	
006I	SW-6	w	TOTAL	52	27	3.1	78	1	102	
007I	S PARR SW-11	w	TOTAL	-11	5.0	66	46	1	104	
0081	N PARR SW-12	w	TOTAL	7.8	7.3	6.0	57	1	102	
Repo	rting Limit for DF =1;	w	TOTAL	0.5	0.5	0.5	5.0		μg/I	
ND m	neans not detected at or we the reporting limit	S	TOTAL	NA	NA	NA NA	NA	1	NA	

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Angela Rydelius, Lab Manager

	"When Quality Co	ounts"		http://www.mccar	npbell.com / E-mail: main	@mccampbell.co	om	
Environmental Tec	chnical Services	Client Project 1 2012	piect ID: LRT Annual March Date Sampled: 03/14/1: Date Received: 03/15/1: Date Extracted: 03/16/1:					
1548 Jacob Avenu	e	2012				: 03/15/12		
	3	Client Contact				03/16/12		
San Jose, CA 9511	18	Client P.O.:			Date Analyzed:	03/16/12		
Analytical Method: SM2	2510B	Specific	Conductivit	y*		Work Order:	1203539	
Lab ID	Client ID		Matrix	Specific	Conductivity	DF	Comments	
1203539-001G	SW-1		w	38.8	@ 25.0°C	1		
1203539-002G	SW-2		w	76.0	@ 25.0°C	(1)		
1203539-003G	SW-3		w	178	@ 25.0°C	1		
1203539-004G	SW-4		w	76.5	@ 25.0°C	1		
1203539-005G	SW-5		w	34.8	@ 25.0°C	1		
1203539-006G	SW-6		w	42.6	@ 25.0°C	1		
1203539-007G	S PARR SW-11		w	159	@ 25.0°C	1		
1203539-008G	N PARR SW-	12	w	64.4	@ 25.0°C	1		
Reporting Limit for D	F = 1; ND means not detec	ted at or above the	w	10 μmh	os/cm @ 25°C			
reporting limit			S		NA			

2012 Client Contact: Helen M	Client Project ID: LRT Annual March	Date Sampled: 03/14/12
1548 Jacob Avenue	2012	Date Received: 03/15/12
1340 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 03/20/12-03/21/12
San Jose, CA 95118	Client P.O.:	Date Analyzed: 03/20/12-03/21/12

Total Organic Carbon (TOC) repo	orted as NPOC*
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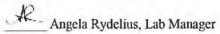
Analytical Method: E415.3				Work Order:	r: 1203539	
Lab ID	Client ID	Matrix	TOC	DF	Comment	
1203539-001B	SW-1	w	1.7	Ī		
1203539-002B	SW-2	w	1.5	1		
1203539-003B	SW-3	w	1.6	1		
1203539-004B	SW-4	w	1.6	ı		
1203539-005B	SW-5	w	2.2	1		
1203539-006B	SW-6	w	1.8	1		
1203539-007B	S PARR SW-11	w	2.5	1		
1203539-008B	N PARR SW-12	w	4.5	1		
					-	

Reporting Limit for DF = 1; ND means not detected at or above the	W	0.3 mg/L
reporting limit	S	NA

^{*} water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3. TOC is reported as NPOC.

TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon; POC = Purgeable Organic Cabon; IC = Inorganic Carbon; TC = Total Carbon.

DF = Dilution Factor



Environmental Technical Services	Client Project ID: LRT Annual March	Date Sampled:	03/14/12
1540 Torok Assessed	2012	Date Received:	03/15/12
1548 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted:	03/15/12
San Jose, CA 95118	Client P.O.: #TL22474	Date Analyzed:	03/16/12-03/23/12

Total Extractable Petroleum Hydrocarbons*

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1203539-001D	SW-1	w	100	340	1	100	e7,e2
1203539-002D	SW-2	w	58	ND	1	91	e2
1203539-003D	SW-3	w	ND	ND	1	98	
1203539-004D	SW-4	w	ND	ND	1	97	
1203539-005D	SW-5	w	ND	370	1	98	e7
1203539-006D	SW-6	w	ND	ND	'n	98	
1203539-007D	S PARR SW-11	w	150	460	1	96	e7,e2
1203539-008D	N PARR SW-12	w	ND	ND	1	99	
Reportis	ng Limit for DF =1;	w	50	250	1	μg/I	

Reporting Limit for DF=1; ND means not detected at or	w	50	250	μg/L
above the reporting limit	S	NA	NA	mg/Kg

^{*} water samples are reported in µg/L, filter samples samples in µg/filter, µg/wipe in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

Angela Rydelius, Lab Manager

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

Environmental Technical Services	Client Project ID: LRT Annual March	Date Sampled: 03/14/12
1548 Jacob Avenue	2012	Date Received: 03/15/12
1340 Jacob Avende	Client Contact: Helen Mawhinney	Date Extracted: 03/19/12
San Jose, CA 95118	Client P.O.:	Date Analyzed: 03/19/12
	Esta esta esta esta esta esta esta esta e	*

Total S	Suspended	Solids*
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Analytical Method: SM2540D		Work Order:	1203539		
Lab ID	Client ID	Matrix	Total Suspended Solids	DF	Comment
1203539-001H	SW-1	w	23.4	2	
1203539-002H	SW-2	w	191	10	
1203539-003Н	SW-3	w	153	10	
1203539-004Н	SW-4	w	29.0	2	
1203539-005Н	SW-5	w	26.0	2	
1203539-006Н	SW-6	w	7.00	1	
1203539-007Н	S PARR SW-11	w	165	10	
1203539-008H	N PARR SW-12	w	11.4	2	

Reporting Limit for DF = 1; ND means not detected at or above the	w	1.0 mg/L
reporting limit	S	NA

^{*} water samples reported in mg/L.

DF = Dilution Factor

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65778

WorkOrder: 1203539

EPA Method: SW8015B Extraction: SW3510C Spiked Sample ID: N/A						N/A						
Analyte	Sample	Sample Spiked MS		Sample Spiked MS MSD MS-MSD LCS		MS MSD N		MS MSD MS-MSD		Acc	eptance	Criteria (%)
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS			
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	122	N/A	N/A	70 - 130			
%SS:	N/A	625	N/A	N/A	N/A	88	N/A	N/A	70 - 130			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65778 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203539-001D	03/14/12 7:40 AM	03/15/12	03/20/12 2:13 PM	1203539-002D	03/14/12 7:10 AM	03/15/12	03/21/12 10:09 PM
1203539-003D	03/14/12 2:10 PM	03/15/12	03/23/12 2:32 PM	1203539-004D	03/14/12 1:05 PM	03/15/12	03/16/12 8:25 PM
1203539-005D	03/14/12 1:15 PM	03/15/12	03/16/12 9:32 PM	1203539-006D	03/14/12 1:25 PM	03/15/12	03/16/12 7:18 PM
1203539-007D	03/14/12 2:45 PM	03/15/12	03/20/12 3:04 PM	1203539-008D	03/14/12 3:10 PM	03/15/12	03/16/12 9:17 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E1664A

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 65799 WorkOrder: 1203539

EPA Method: E1664A	EPA Method: E1664A Extraction: E1664A Spiked Sample ID: N/A											
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)			
, maye	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS			
HEMSGT	N/A	10.42	N/A	N/A	N/A	92	N/A	N/A	70 - 130			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 65799 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203539-001E	03/14/12 7:40 AM	03/21/12	03/22/12 2:55 PM	1203539-002E	03/14/12 7:10 AM	03/21/12	03/22/12 3:00 PM
1203539-003E	03/14/12 2:10 PM	03/21/12	03/22/12 3:05 PM	1203539-004E	03/14/12 1:05 PM	03/21/12	03/22/12 3:10 PM
1203539-005E	03/14/12 1:15 PM	03/21/12	03/22/12 3:15 PM	1203539-006E	03/14/12 1:25 PM	03/21/12	03/22/12 3:20 PM
1203539-007E	03/14/12 2:45 PM	03/21/12	03/22/12 3:25 PM	1203539-008E	03/14/12 3:10 PM	03/21/12	03/22/12 3:30 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate therefore unable to comply with method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65823

WorkOrder: 1203539

EPA Method: E200.8	Extraction: E200.8					- 1	Spiked Sam	ple ID:	1203314-011A
Analyte	Sample	Spiked MS	MS	MSD MS-MSD	LCS	Acceptance Criteria (%)			
7 that yes	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Copper	120	50	91.2	87.2	1.22	95.4	70 - 130	20	70 - 130
Lead	ND	50	98.2	98.5	0.324	98.8	70 - 130	20	70 - 130
Vanadium	1.7	50	95.2	95.7	0.425	97.3	70 - 130	20	70 - 130
Zinc	7.4	500	91	90	1.11	95	70 - 130	20	70 - 130
%SS:	100	750	101	102	0.527	102	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65823 SUMMARY

Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
03/14/12 7:40 AM	03/15/12	03/17/12 7:00 AM	1203539-002I	03/14/12 7:10 AM	03/15/12	03/19/12 6:38 PM
03/14/12 2:10 PM	03/15/12	03/17/12 7:12 AM	1203539-004I	03/14/12 1:05 PM	03/15/12	03/17/12 7:18 AM
03/14/12 1:15 PM	03/15/12	03/17/12 7:25 AM	1203539-006I	03/14/12 1:25 PM	03/15/12	03/17/12 7:31 AM
03/14/12 2:45 PM	03/15/12	03/17/12 7:37 AM	1203539-008I	03/14/12 3:10 PM	03/15/12	03/17/12 7:43 AM
	03/14/12 7:40 AM 03/14/12 2:10 PM 03/14/12 1:15 PM	03/14/12 7:40 AM 03/15/12 03/14/12 2:10 PM 03/15/12 03/14/12 1:15 PM 03/15/12	03/14/12 7:40 AM 03/15/12 03/17/12 7:00 AM 03/14/12 2:10 PM 03/15/12 03/17/12 7:12 AM 03/14/12 1:15 PM 03/15/12 03/17/12 7:25 AM	03/14/12 7:40 AM 03/15/12 03/17/12 7:00 AM 1203539-002I 03/14/12 2:10 PM 03/15/12 03/17/12 7:12 AM 1203539-004I 03/14/12 1:15 PM 03/15/12 03/17/12 7:25 AM 1203539-006I	03/14/12 7:40 AM 03/15/12 03/17/12 7:00 AM 1203539-002I 03/14/12 7:10 AM 03/14/12 2:10 PM 03/15/12 03/17/12 7:12 AM 1203539-004I 03/14/12 1:05 PM 03/14/12 1:15 PM 03/15/12 03/17/12 7:25 AM 1203539-006I 03/14/12 1:25 PM	03/14/12 7:40 AM 03/15/12 03/17/12 7:00 AM 1203539-002I 03/14/12 7:10 AM 03/15/12 03/14/12 2:10 PM 03/15/12 03/17/12 7:12 AM 1203539-004I 03/14/12 1:05 PM 03/15/12 03/14/12 1:15 PM 03/15/12 03/17/12 7:25 AM 1203539-006I 03/14/12 1:25 PM 03/15/12

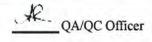
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR E410.4

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 66025 WorkOrder: 1203539

EPA Method: SM5220D	Extraction: SM5220D						Spiked Sam	ple ID:	1203539-001C
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
,	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
COD	22	400	97.2	96.6	0.590	100	80 - 120	20	90 - 110

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 66025 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203539-001C	03/14/12 7:40 AM	03/22/12	03/22/12 1:32 PM	1203539-002C	03/14/12 7:10 AM	03/22/12	03/22/12 1:38 PM
1203539-003C	03/14/12 2:10 PM	03/22/12	03/22/12 1:44 PM	1203539-004C	03/14/12 1:05 PM	03/22/12	03/22/12 1:50 PM
1203539-005C	03/14/12 1:15 PM	03/22/12	03/22/12 1:56 PM	1203539-006C	03/14/12 1:25 PM	03/22/12	03/22/12 2:02 PM
1203539-007C	03/14/12 2:45 PM	03/22/12	03/22/12 2:08 PM	1203539-008C	03/14/12 3:10 PM	03/22/12	03/22/12 2:14 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65723

WorkOrder: 1203539

EPA Method: SW8081A/8082	Extraction: SW3510C						Spiked Sam	ple ID:	N/A
Analyte	Sample	Spiked MS		MS MSD	MSD MS-MSD	LCS	Acceptance Criteria (%)		
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Aldrin	N/A	0.50	N/A	N/A	N/A	107	N/A	N/A	70 - 130
g-BHC	N/A	0.50	N/A	N/A	N/A	94.2	N/A	N/A	70 - 130
p,p-DDT	N/A	1.25	N/A	N/A	N/A	84.7	N/A	N/A	70 - 130
Dieldrin	N/A	1.25	N/A	N/A	N/A	120	N/A	N/A	70 - 130
Endrin	N/A	1.25	N/A	N/A	N/A	100	N/A	N/A	70 - 130
Heptachlor	N/A	0.50	N/A	N/A	N/A	89.3	N/A	N/A	70 - 130
%SS:	N/A	1.25	N/A	N/A	N/A	112	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65723 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203539-001F	03/14/12 7:40 AM	03/15/12	03/25/12 6:31 AM	1203539-002F	03/14/12 7:10 AM	03/15/12	03/25/12 7:27 AM
1203539-003F	03/14/12 2:10 PM	03/15/12	03/25/12 8:24 AM	1203539-004F	03/14/12 1:05 PM	03/15/12	03/25/12 9:21 AM
1203539-005F	03/14/12 1:15 PM	03/15/12	03/25/12 10:17 AM	1203539-006F	03/14/12 1:25 PM	03/15/12	03/25/12 11:15 AM
1203539-007F	03/14/12 2:45 PM	03/15/12	03/25/12 12:12 PM	1203539-008F	03/14/12 3:10 PM	03/15/12	03/25/12 5:56 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 65820 WorkOrder: 1203539

EPA Method: E200.7 Extraction: E200.7 Spiked Sample ID: 1203314-010A										
Analyte	Sample	Sample Spiked		MSD	MS-MSD	LCS	Acceptance Criteria (%)			
Allalyte	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Aluminum	ND	1000	96.1	95.7	0.356	90.7	70 - 130	20	85 - 115	
Iron	ND	1000	98	94.9	3.20	100	70 - 130	20	85 - 115	
%SS:	100	750	105	101	3.71	99	70 - 130	30	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65820 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203539-001I	03/14/12 7:40 AM	03/15/12	03/20/12 7:34 PM	1203539-002I	03/14/12 7:10 AM	03/15/12	03/20/12 5:57 PM
1203539-003I	03/14/12 2:10 PM	03/15/12	03/20/12 7:37 PM	1203539-004I	03/14/12 1:05 PM	03/15/12	03/20/12 7:40 PM
1203539-0051	03/14/12 1:15 PM	03/15/12	03/20/12 7:43 PM	1203539-006I	03/14/12 1:25 PM	03/15/12	03/20/12 7:56 PM
1203539-007I	03/14/12 2:45 PM	03/15/12	03/20/12 7:59 PM	1203539-008I	03/14/12 3:10 PM	03/15/12	03/20/12 8:02 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 65946 WorkOrder: 1203539

EPA Method: E415.3 Extraction: E415.3 Spiked Sample ID: 120										
Analyte	Sample	ole Spiked MS MSD MS-MSD LC				LCS	CS Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
тос	1.7	50	112	113	0.431	114	70 - 130	20	80 - 120	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 65946 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203539-001B	03/14/12 7:40 AM	03/20/12	03/20/12 10:18 PM	1203539-002B	03/14/12 7:10 AM	03/20/12	03/20/12 11:26 PM
1203539-003B	03/14/12 2:10 PM	03/20/12	03/20/12 11:39 PM	1203539-004B	03/14/12 1:05 PM	03/20/12	03/20/12 11:53 PM
1203539-005B	03/14/12 1:15 PM	03/21/12	03/21/12 12:07 AM	1203539-006B	03/14/12 1:25 PM	03/21/12	03/21/12 12:23 AM
1203539-007B	03/14/12 2:45 PM	03/21/12	03/21/12 12:38 AM	1203539-008B	03/14/12 3:10 PM	03/21/12	03/21/12 12:52 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 65886 WorkOrder: 1203539

EPA Method: SW8260B Extraction: SW5030B Spiked Sample ID: 1203530-001F									
Analyte	Sample	e Spiked µg/L	MS % Rec.		MS-MSD % RPD	LCS % Rec.	Acceptance Criteria (%)		
,,	μg/L						MS / MSD	RPD	LCS
Benzene	ND	10	98.5	95.7	2.91	104	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	102	106	3.53	101	70 - 130	20	70 - 130
Toluene	ND	10	87.5	95.9	9.13	100	70 - 130	20	70 - 130
%SS1:	107	25	110	112	1.95	113	70 - 130	20	70 - 130
%SS2:	110	25	105	105	0	109	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65886 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203539-001A	03/14/12 7:40 AM	03/16/12	03/16/12 5:36 PM	1203539-002A	03/14/12 7:10 AM	03/16/12	03/16/12 6:16 PM
1203539-003A	03/14/12 2:10 PM	03/16/12	03/16/12 10:21 PM	1203539-004A	03/14/12 1:05 PM	03/16/12	03/16/12 11:01 PM
1203539-005A	03/14/12 1:15 PM	03/16/12	03/16/12 11:42 PM	1203539-006A	03/14/12 1:25 PM	03/17/12	03/17/12 12:23 AM
1203539-007A	03/14/12 2:45 PM	03/17/12	03/17/12 1:05 AM	1203539-008A	03/14/12 3:10 PM	03/17/12	03/17/12 1:47 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2510B (Specific Conductivity) Matrix: W WorkOrder: 1203539

Method Name: S	SM2510B	Units: µmhos/d	m @ 25°C	BatchID: 65858		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1203539-001G	38.8 @ 25.0°C	1	38.8 @ 25.0°C	1	0.103	<2
1203539-002G	76.0 @ 25.0°C	1	76.1 @ 25.0°C	1	0.145	<2
1203539-003G	178 @ 25.0°C	1	179 @ 25.0°C	I	0.617	<2
1203539-004G	76.5 @ 25.0°C	1	76.6 @ 25.0°C	1	0.157	<2
1203539-005G	34.8 @ 25.0°C	1	34.9 @ 25.0°C	1	0.172	<2
1203539-006G	42.6 @ 25.0°C	1	42.7 @ 25.0°C		0.352	<2
1203539-007G	159 @ 25.0°C	1	162 @ 25.0°C	1	1.5	<2
1203539-008G	64.4 @ 25.0°C	1	64.5 @ 25.0°C	1	0.171	<2

BATCH 65858 SUMMARY

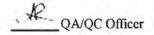
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203539-001G	03/14/12 7:40 AM	03/16/12	03/16/12 2:10 PM	1203539-002G	03/14/12 7:10 AM	03/16/12	03/16/12 2:20 PM
1203539-003G	03/14/12 2:10 PM	03/16/12	03/16/12 2:30 PM	1203539-004G	03/14/12 1:05 PM	03/16/12	03/16/12 2:40 PM
1203539-005G	03/14/12 1:15 PM	03/16/12	03/16/12 2:50 PM	1203539-006G	03/14/12 1:25 PM	03/16/12	03/16/12 3:00 PM
1203539-007G	03/14/12 2:45 PM	03/16/12	03/16/12 3:10 PM	1203539-008G	03/14/12 3:10 PM	03/16/12	03/16/12 3:20 PM

Dup = Duplicate; SD = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2540D (TSS) Matrix: W WorkOrder: 1203539

Method Name: SN	/2540D		Units: mg/L			BatchID: 65948
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1203539-001H	23.4	2	23.4	2	0	<15
1203539-002H	191	10	194	10	1.56	<15
1203539-003Н	153	10	156	10	1.94	<15
1203539-004Н	29.0	2	30.6	2	5.37	<15
1203539-005H	26.0	2	26.4	2	1.53	<15
1203539-006Н	7.00	1	8.00	2	13.3	<15
1203539-007H	165	10	166	10	0.604	<15
1203539-008H	11.4	2	12.8	2	11.6	<15

BATCH 65948 SUMMARY

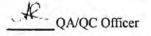
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203539-001H	03/14/12 7:40 AM	03/19/12	03/19/12 7:15 PM	1203539-002H	03/14/12 7:10 AM	03/19/12	03/19/12 7:25 PM
1203539-003H	03/14/12 2:10 PM	03/19/12	03/19/12 7:35 PM	1203539-004H	03/14/12 1:05 PM	03/19/12	03/19/12 7:45 PM
1203539-005H	03/14/12 1:15 PM	03/19/12	03/19/12 7:55 PM	1203539-006H	03/14/12 1:25 PM	03/19/12	03/19/12 8:05 PM
1203539-007H	03/14/12 2:45 PM	03/19/12	03/19/12 8:15 PM	1203539-008H	03/14/12 3:10 PM	03/19/12	03/19/12 6:15 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



Certified Laboratory Analytical Reports Chain of Custody

Discharge To Sanitary Sewer Stormwater Systems Cleanout Sampling Events

October 5, 2011 November 29, 2011 January 25, 2012 March 29, 2012 April 5, 2012

Discharge To Sanitary Sewer Stormwater Systems Cleanout Sampling Events

October 5, 2011

Analytical Report

Environmental Technical Services	Client Project ID: Discharge 10/05/11; LRT Discharge 031711	Date Sampled: 10/05/11
1548 Jacob Avenue	Discharge 031711	Date Received: 10/06/11
1340 Jacob Avenue	Client Contact: Helen Mawhinney	Date Reported: 10/12/11
San Jose, CA 95118	Client P.O.: #TL22292	Date Completed: 10/12/11

WorkOrder: 1110212

October 12, 2011

Dear Helen:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: Discharge 10/05/11; LRT Discharge 031711,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

Websit Teleph	e: www.mccamp none: (877) 252	WILLOW SBURG, Copheli.com 2-9262	PASS I A 94565 Email	ROAD 5-1701 : main@ Fau	9 mc	camp 25)	obel 252	l.cor	n	2						N AR	O	JNI	T	IM J	E PD	F	RU	SH E	24 xce	HR	V	IS HR	On (I	
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Sampler Signature:													1 =	1	3	35						N. N.			П					
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SAMPLE ID	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	Other	BTEX 602 624 RL -	A ROBERT MINERAL	TELLI DIESEL CIV-28 3510/8015 (8)	MOTOR OIL C28-C40, 3510/8015B (M) YOTAL PETROLEIM OIL & GREASE 1664 TOTAL OF ALL TPH MIST HAVE RE-< (00	TSS 160.2 <300.0 ppm	SPEC COND 120.1	BOD RL CM0.0 ppm	PH SM18 4500 H+B	roc	TTLC AL. CU, FE, ZN,	TTLC CU RI. 0.6 5	TTLC pB RL <0.3						
SW-1 through SW7	October 5, 2011	1700			Х	i							Х			X	X	X				Х						1		FIELD COMP
SW-1	10/5/11	1700			X	3		+	+	+	+	+	+	+	+	+											+	+	++	Lab Comp
SW-2	10/5/11	1700			X				+	1	1		1	t	Ť			П											11	Lab Comp
SW-3	10/5/11	1700			X				+	+	+		1	+	1			Н												Lab Comp
SW-4	10/5/11	1700			X	,			+	+	+	+	1	+	1													+		Lab Comp
SW-5	10/5/11	1700			X				+	+	+	+	+	+	+	+		1									-	+	++	Lab Comp
SW-6	10/5/11	1700			X			+	+	+	+	+	1	+	+	+		Н										+	+++	Lab Comp
SW-7	10/5/11	1700			X				1	1	1			t																Can Comp
**MAI clients MUST disc gloved, open air, sample h allowing us to work safely	andling by MAI s	taff. Non-di	isclosur	e incurs	an in								e cli	ent i	5 58	bject to										ank ye	ou for	your	understa	
Relinquished By: Relinquished By:	Date Date	1 135 Time	O Z	eceived eceived	Er:	7	See See	2	1		10	5	GH H Di Ai Pi	EAI ECH PPR RES	D CO O SP ILO OP! ER'	ONDITION OR INATE	TED CO LA	IN L NTA B_	INE	RS	-	Com	yses	te SV	N-Ft	hroug	gh SW		OAs in tab	as one sample for

VOAS O&G METALS OTHER PRESERVATION pH<2

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Tt 22292

	10/05 REQUISITION NO. 901,-0120-740
TO Mc CAMPBELL	H. MAWAINNEY /T. LESTER

EQUISITIONED BY	WHEN SHI	P	SHIP VIA	F.O.B. POINT	T	ERMS
A Mauhinno	4					
OTY. ORDERED	QTY. RECEIVED		STOCK NO. I DES	CRIPTION	UNIT PRICE	TOTAL
		SWI-	> SW7 D	LSCHARGE PH	16110	
			,		1	1

^{3.} Notify us wrimediately if you are unable to ship at specified.

AUTHORIZED BY

McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

✓ Email

HardCopy

Page 1 of 1

J-flag

ThirdParty

WorkOrder: 1110212 ClientCode: ETS

Fax

		В	III to:		Requested TAT:	5 day
	_		_	-	_	

Report to: Bill to: Requested Thelen Mawhinney Email: HMawhinneyETS@aol.com Helen Mawhinney

EDF

Environmental Technical Services

1548 Jacob Avenue

PO: #TL22292

San Jose, CA 95118

Environmental Technical Services

1548 Jacob Avenue

Date Received: 10/06/2011

San Jose, CA 95118

Date Printed: 10/07/2011

Excel

510-385-4308 FAX: 510-522-6259 031711 james.jimenez@sbcglobal.net

WriteOn

□ WaterTrax

				- 1				Re	quested	Tests	See leg	end belo	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1110212-001	LRTO SW-1 through SW-7	Water	10/5/2011 17:00		В		D	D	С	С						
1110212-001	LRTO SW-1 through SW-7(Composite)	Water	10/5/2011 17:00			Α										

Test Legend:

1	1664A_SG_W	2	624_W	3	ALKIMET_W	4	METALSMS_W	5	SC_W
6	TSS_W	7		8		9		10	
11		12		1					

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	Environmental	Technical Services			Date	and Time Received:	10/6/2011 7	7:37:17 PM	
Project Name:	Discharge 10/0	5/11; LRT Discharge 031	711		Checl	klist completed and re	eviewed by:	Zoraida Cortez	
WorkOrder N°:	1110212	Matrix: Water			Сапіє	er: Rob Pringle (N	(Al Courier)		
		Chi	ain of C	ustody (C	OC) Informa	ation			
Chain of custody	y present?		Yes	•	No 🗆				
Chain of custody	y signed when reli	nquished and received?	Yes	V	No 🗆				
Chain of custody	y agrees with sam	ple labels?	Yes	~	No 🗌				
Sample IDs note	ed by Client on CC	DC?	Yes	~	No 🗌				
Date and Time of	of collection noted	by Client on COC?	Yes	~	No 🗆				
Sampler's name	noted on COC?		Yes	~	No 🗌				
			Sample	Receipt	Information				
Custody seals in	ntact on shipping	container/cooler?	Yes		No 🗌		NA 🗸		
Shipping contain	ner/cooler in good	condition?	Yes	1	No 🗆				
Samples in prop	er containers/bott	des?	Yes	•	No 🗆				
Sample containe	ers intact?		Yes	~	No 🗆				
Sufficient sampl	e volume for indic	ated test?	Yes	•	No 🗌				
		Sample Pre	servatio	n and Ho	old Time (HT)) Information			
All samples rece	eived within holdin	g time?	Yes	•	No 🗌				
Container/Temp	Blank temperatur	re	Coole	er Temp:	1.8°C		NA 🗆		
Water - VOA via	als have zero head	space / no bubbles?	Yes	~	No 🗌	No VOA vials subm	itted		
Sample labels c	hecked for correc	t preservation?	Yes	•	No 🗌				
Metal - pH accep	ptable upon receip	ot (pH<2)?	Yes	•	No 🗆		NA 🗆		
Samples Receiv	ed on Ice?		Yes	•	No 🗌				
		(Ice Ty	pe: WE	TICE)				
* NOTE: If the "I	No" box is checke	d, see comments below.							
=====	=====	======	==:	===	====	======	====	=====	==
Client contacted	ir i	Date conta	cted:			Contacted	bv.		
S.IOTH SOMMOTER		Date of he				Contacted	-,-		
Commente:									

	"When Quality Co	unts"	http://www.mccan	npbell.com / E-mail: main(@mccampbell	.com
Environmenta	l Technical Services		D: Discharge 10/05/11;	Date Sampled:	10/05/11	
1548 Jacob Av	venue	LRT Discharge	031711	Date Received:	10/06/11	
1346 Jacob A	venue	Client Contact:	Helen Mawhinney	Date Extracted	10/10/11	
San Jose, CA	95118	Client P.O.: #TI	L22292	Date Analyzed	10/11/11	
Extraction method: I			erial with Silica Gel Clea	ın Up*	Work Order	: 1110212
Lab ID	Client ID	Matrix	HEMSGT	DF	% SS	Comments
1110212-001B	LRTO SW-1 through SW-7	w	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or	W	5.0	mg/L
above the reporting limit	S	NA	NA

^{*} water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

%SS = Percent Recovery of Surrogate Standard

surrogate diluted out of range or not applicable to this sample.

Angela Rydelius, Lab Manager

	ID: Discharge 10/05/11;	Date Sampled:	10/05/11	
LRT Discharg	ge 031711	Date Received:	10/06/11	
Client Contac	t: Helen Mawhinney	Date Extracted:	10/11/11	
Client P.O.: #	TL22292	Date Analyzed:	10/11/11	
Volatile Organi	cs by P&T and GC/MS *			
			Work Order:	1110212
1110212-001A				
LRTO SW-1 through SW-7(Composite)			Reporting DF	
W				
1			S	w
	Concentration		ug/kg	μg/L
ND			NA	0.5
ND			NA	0.5
ND			NA	0.5
ND			NA	0.5
Surrogate	Recoveries (%)			
118				
109				
119				
	Client Contact Client P.O.: # Volatile Organic Analytical 1110212-001A LRTO SW-1 through SW-7(Composite) W 1 ND ND ND ND ND Surrogate 118 109	LRT Discharge 031711 Client Contact: Helen Mawhinney Client P.O.: #TL22292 Volatile Organics by P&T and GC/MS * Analytical Method: E624 1110212-001A LRTO SW-1 through SW-7(Composite) W 1 Concentration ND ND ND ND Surrogate Recoveries (%)	LRT Discharge 031711 Date Received: Client Contact: Helen Mawhinney Client P.O.: #TL22292 Date Analyzed: Volatile Organics by P&T and GC/MS * Analytical Method: E624 1110212-001A LRTO SW-1 through SW-7(Composite) W 1 Concentration ND ND ND ND ND Surrogate Recoveries (%)	LRT Discharge 031711 Date Received: 10/06/11

surrogate diluted out of range or surrogate coelutes with another peak.

Environmental Technical Services		Date Sampled: 10/05/11
1548 Jacob Avenue	LRT Discharge 031711	Date Received: 10/06/11
	Client Contact: Helen Mawhinney	Date Extracted: 10/06/11
San Jose, CA 95118	Client P.O.: #TL22292	Date Analyzed: 10/08/11

Alkali Metals by ICP*

Extraction method: E200.7 Analytical methods: E200.7 Work Order: 1110212

Lab ID	Client ID	Matrix	Extraction Type	Aluminum	Iron	DF	% SS	Comments
001D	LRTO SW-1 through SW-7	w	TOTAL	4900	9200	1	101	
	Reporting Limit for DF =1;	w	TOTAL	50	50		μg/I	L
ND means	s not detected at or above the reporting limit	S	TOTAL	NA	NA		NA	

Reporting Limit for DF =1;			74.55	10
ND means not detected at or above the reporting limit S	TOTAL	NA	NA	NA

*water samples are reported in ug/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644

Environmental Technical Services		Date Sampled:	10/05/11
1548 Jacob Avenue	LRT Discharge 031711	Date Received:	10/06/11
10 10 0000 1110100	Client Contact: Helen Mawhinney	Date Extracted:	10/06/11
San Jose, CA 95118	Client P.O.: #TL22292	Date Analyzed:	10/07/11

Metals*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 1110212

	method. E200.8			- many neur	memous. E20				_	Older. 1.	
Lab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Nickel	Vanadium	Zinc	DF	% SS	Comments
001D	LRTO SW-1 through SW-7	w	TOTAL	42	61	17	28	390	20	101	
									1		
									1		
		-							1		
									1		

Reporting Limit for DF =1; ND means not detected at or	w	TOTAL	0.5	0.5	0.5	0.5	5.0	μg/L
above the reporting limit	S	TOTAL	NA	NA	NA	NA	NA	NA

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

	"When Quality	Counts"		http://www.nkcan	ipoen.com/ E-man: main@n	ксапфоена	John
Environmental Te	chnical Services	Client Project LRT Discharg	ID: Discharg	ge 10/05/11;	Date Sampled:	0/05/11	
1548 Jacob Avenu	ie	LKT Discharg	C 051711		Date Received:	0/06/11	
15 to successivent		Client Contact	: Helen Maw	hinney	Date Extracted:	0/10/11	
San Jose, CA 951	18	Client P.O.: #	TL22292		Date Analyzed:	0/10/11	
Analytical Method: SM	2510B	Specific	Conductivit	y*		Work Order	1110212
Lab ID	Client I	D	Matrix	Specific	Conductivity	DF	Comment
1110212-001C	LRTO SW-1 thro	ough SW-7	w	594	@ 25.0°C	1	
Reporting Limit for D	DF = 1; ND means not det	ected at or above the	w	10 μmho	os/cm @ 25°C		
Reporting Limit for 2	reporting limit	color at or above the	S		NA		
DF = Dilution Factor							

		Counts"		http://www.mccan	npbell.com / E-mail: main@	mccampbell.	com
Environmental To	echnical Services	Client Project I LRT Discharge	D: Dischar	ge 10/05/11;	Date Sampled:	10/05/11	
1548 Jacob Aven	ne	EKI Discharge	,031/11		Date Received:	10/06/11	
1340 Jacob Aven	uc	Client Contact:	Helen Maw	hinney	Date Extracted:	10/11/11	
San Jose, CA 951	118	Client P.O.: #T	L22292		Date Analyzed:	10/11/11	
Analytical Method: SM	12540D	Total Su	spended Soli	ids*		Work Order	: 1110212
Lab ID	Client I	D	Matrix	Total Sus	spended Solids	DF	Comments
1110212-001C	LRTO SW-1 thro	ugh SW-7	w		170	5	
Reporting Limit for	DF = 1; ND means not det	ected at or above the	w	1.	0 mg/L		
	reporting limit		S		NA		
* water samples report DF = Dilution Factor	ed in mg/L.						
Dr - Dilution Factor							

QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 61736 WorkOrder: 1110212

EPA Method: E200.7 Extraction: E200.7									piked Sam	ple ID:	1110009-0	04A	
Analyte	Sample Spiked MS			MSD	MS-MSD	S-MSD LCS	LCS LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD			
Aluminum	ND	1000	94.8	94	0.782	92.4	92.6	0.195	70 - 130	20	85 - 115	20	
Iron	ND	1000	96.9	96.7	0.196	97.2	97.2	0	70 - 130	20	85 - 115	20	
%SS:	100	750	98	100	1.98	99	103	4.10	70 - 130	30	70 - 130	30	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 61736 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1110212-001D	10/05/11 5:00 PM	10/06/11	10/08/11 2:21 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E1664A

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 61767 WorkOrder: 1110212

EPA Method: E1664A	Spiked Sample ID: N/A											
Analyte	Sample Spiked MS			MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	Acceptance Criteria (%		
, maryto	mg/L mg/	mg/L	% Rec.	% Rec.	% Rec. % RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
HEMSGT	N/A	20.83	N/A	N/A	N/A	91.5	90.1	1.61	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 61767 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1110212-001B	10/05/11 5:00 PM	10/10/11	10/11/11 3:25 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate therefore unable to comply with method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E624

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 61766 WorkOrder: 1110212

EPA Method: E624	Extrac	ction: E62	24						Spiked Sam	ple ID:	N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzene	N/A	10	N/A	N/A	N/A	110	106	4.01	N/A	N/A	70 - 130	30
Chlorobenzene	N/A	10	N/A	N/A	N/A	112	106	4.80	N/A	N/A	70 - 130	30
1,1-Dichloroethene	N/A	10	N/A	N/A	N/A	107	102	4.93	N/A	N/A	70 - 130	30
Methyl-t-butyl ether (MTBE)	N/A	10	N/A	N/A	N/A	110	105	4.46	N/A	N/A	70 - 130	30
Toluene	N/A	10	N/A	N/A	N/A	110	106	4.39	N/A	N/A	70 - 130	30
Trichloroethene	N/A	10	N/A	N/A	N/A	113	108	4.81	N/A	N/A	70 - 130	30
%SS1;	N/A	25	N/A	N/A	N/A	113	112	0.811	N/A	N/A	70 - 130	30
%SS2:	N/A	25	N/A	N/A	N/A	110	110	0	N/A	N/A	70 - 130	30
%SS3:	N/A	2.5	N/A	N/A	N/A	122	121	0.560	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 61766 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1110212-001A	10/05/11 5:00 PM	10/11/11	10/11/11 3:13 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 61748 WorkOrder: 1110212

EPA Method: E200.8	Extra	ction: E20	8.00					S	Spiked Sam	ple ID:	1110009-0	05A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	e Criteria (%)	
Analyte	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Copper	19	10	107	109	0.579	103	102	1.17	70 - 130	20	85 - 115	20
Lead	ND	10	105	104	0.946	101	102	0.591	70 - 130	20	85 - 115	20
Nickel	0.86	10	102	103	0.721	100	102	1.38	70 - 130	20	85 - 115	20
Vanadium	3.0	10	108	106	1.53	101	102	1.38	70 - 130	20	85 - 115	20
Zinc	ND	100	103	103	0	102	101	0.0986	70 - 130	20	85 - 115	20
%SS:	105	750	89	103	14.2	98	97	0.205	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 61748 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1110212-001D	10/05/11 5:00 PM	10/06/11	10/07/11 8:26 PM				

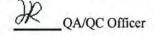
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2510B (Specific Conductivity) Matrix: W WorkOrder: 1110212

Method Name: 8	SM2510B		Units: µmhos/c		BatchID: 61754		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)	
1110212-001C	594 @ 25.0°C	I	593 @ 25.0°C	1	0.135	<2	

BATCH 61754 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1110212-001C	10/05/11 5:00 PM	1 10/10/11	10/10/11 4:50 PM				

Test Method: SM2540D (TSS) Matrix: W WorkOrder: 1110212

Method Name: Sf	M2540D		Units: mg/L	BatchID: 61761		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1110212-001C	170	5	171	5	0.587	<15

BATCH 61761 SUMMARY

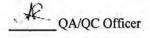
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1110212-001C	10/05/11 5:00 PM	10/11/11	10/11/11 2:45 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



Discharge To Sanitary Sewer Stormwater Systems Cleanout Sampling Events

November 29, 2011

Analytical Report

Environmental Technical Services	Client Project ID: LRTO Discharge Nov 2011	Date Sampled: 11/29/11
1548 Jacob Avenue		Date Received: 11/30/11
1546 sacot Avenue	Client Contact: Helen Mawhinney	Date Reported: 12/05/11
San Jose, CA 95118	Client P.O.: #TL22336	Date Completed: 12/05/11

WorkOrder: 1111866

December 06, 2011

Dear Helen:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: LRTO Discharge Nov 2011,
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

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Report To: Hele	n Mawhinne	ý	В	ill To	: ET	S														A	nal	ysis		que							Other	_	Comments
Company: Env	ironmental T	echnical S	ervices (ETS)															П						П		П					*Indicate
1548 J	Jacob Avenue	, San Jose	, CA 95	118																=		Sign											iere if these
			E	-Mai	l: hm	aw	hini	ieye	ets@	ac	l.c	om								see minimum		age								Ι.	-8		amples are
Tele: (831) 236-				ax: ()														alin		10						920)	(00)		naly		ootentially
Project #: LRTO				rojec			-			_	_		_	1						335 (4)		durs		des)			3	9/0	9970		als a		langerous to
Project Location	n: Levin Rich	mond Ter	minal 40)2 W	right	Ave	enu	e, R	lich	mo	nd,	CA	1		3					NZ se		Aro		rbici		-2	N	109	9010	6	in inet	1	nandle:
Sampler Signate	ire:					_				_	_	_	_		mg/L)		PM)	_	100	NI, 2		LY		Bes	00	00	Hs/	8.00	0.8	602	VED		
		SAMP	LING		2	L	MA	TR	XIX			ESE			<300	120.1	(<1,0 PPM)	mg/L	5210	U. PB,		8's ON		sidic C	N) 090	VS) 073	10 (PA	0.7/20	0.7 / 20	6010	SSOL		
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other	TSS SM2540D	SPEC COND E	BTEX 602, 624	O&G 1664 (<100.0 mg/L)	BOD (, 6.6 mg/L)	TTLC METALS CU, PB, reporting limits) 290.7.	pB	EPA 608 / 8082 PCB's ONLY; Arudurs /	PESTICIDES	EPA 515 / 8151 (Acidic Cl Herbicides	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis		
LRTO SW-1 THROUGH SW-7		11-29-11	1300			Х									X	X	X	X	X	X	X												×
		1				┖				4				_																			1
																			+														
						\vdash				1				\dashv																			
	1			+						1				\dashv						\vdash												-	
	+		-	\vdash	-	-		\exists	-	-	-	-	-	\dashv	-								-	-	-				-				
			-	-	-	-		-	-	-	-			\dashv		-	-			-							-	-	-	-		+	
				-	_	-				4		-	_	_									-		_	_			-			-	
															Н.,																		
**MAI clients MUS gloved, open air, san allowing us to work	nple handling by	MAI staff, N	Non-disclo	sure in	curs a	n in	med	iate	\$250) sur	rcha	arge	and	the	clie	nt is	subje	ect to															
Relinquished By	Illini	Date:	Time:	Rece	ived B	y:		1	14	1	114	de	a	1		E/tº_				· V	/	7	*1	Mata	le mi	olm	ım r				NTS:	mo/I	; pB <0.3 mg/L
amunul	ully	- //	15:10	E	-15	1	K	11	DE	E			1		HE	AD !	SPA	CE A	BSE	INT	-	/		i <0.	5 mg	/L: 7	In <	1.0 m	g/L)				
Relinquished By:	1	Date:	Time: 0900	Rece	sived B	2	10	1	1	1	0	7	0	5						IN L		RS_	V								AMPLE A BY THE		CB
Relinquished By:		Date:	Time:	Rece	ived B	y:									PR	ESE	RVA	TIO		DAS	O	&G	MI pH-		4	отт	HER						

McCampbell Analytical, Inc.

LRTO SW-1 Through SW-7 (Composite)

1534 Willow Pass Rd

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsburg (925) 25	g, CA 94565-1701 52-9262				Work	Order: 11	11866	C	lientCo	ode: E	TS				
		□WaterTrax	WriteOn	□EDF	Excel	□Fa	ax	Email		Hard	Сору	Third	Party	□J-f	ilag
Report to:						Bill to:					Requ	ested TA	ιT:	5	days
Helen Mawh Environmen 1548 Jacob San Jose, C 510-385-4308	tal Technical Services Avenue A 95118	cc: PO:	-IMawhinneyE -RTO Dischar	TS@aol.com; jame	es.jimenez	Enviror 1548 Ja San Jo	Mawhinne nmental To acob Aver se, CA 95 imenez@	echnical nue 5118		es		Receive Printed		11/30/ 11/30/	
							Re	equested	Tests (See leg	end bel	low)			
Lab ID	Client ID		Matrix	Collection Date	Hold 1	2 3	3 4	5	6	7	8	9	10	11	12
1111866-001	LRTO SW-1 Through	gh SW-7	Water	11/29/2011 13:00	ПГ	E	F	В	В	С				133	100

Α

11/29/2011 13:00

Water

Test Legend:

1111866-001

1 1664A_SG_W	2 602_W	3 BOD_W	4 METALSMS_W	5 PH_W
6 SC-120_1_W	7 TSS_W	8	9	10
11	12			
				Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	Environmenta	l Technical Services			Date	and T	ime Received: 1	1/30/2011	10:08:43 AM
Project Name:	LRTO Dischar	rge Nov 2011			Check	klist c	completed and revie	wed by:	Melissa Valles
WorkOrder N°:	1111866	Matrix: Water			Carrie	er:	Client Drop-In		
		Cha	ain of Cu	ustody (C	COC) Informa	ation			
Chain of custody	present?		Yes		No 🗆				
Chain of custody	signed when re	elinquished and received?	Yes		No 🗆				
Chain of custody	agrees with sai	mple labels?	Yes	•	No 🗆				
Sample IDs note	ed by Client on C	COC?	Yes		No 🗆				
Date and Time o	of collection note	d by Client on COC?	Yes		No 🗆				
Sampler's name	noted on COC?	•	Yes		No 🗹				
			Sample	Receipt	Information	L			
Custody seals in	tact on shipping	container/cooler?	Yes		No 🗆		N	A 🐷	
Shipping contain	er/cooler in goo	d condition?	Yes	•	No 🗆				
Samples in propo	er containers/bo	ettles?	Yes	V	No 🗆				
Sample containe	ers intact?		Yes		No 🗌				
Sufficient sample	e volume for indi	icated test?	Yes		No 🗌				
		Sample Pres	servatio	n and Ho	old Time (HT)) Info	rmation		
All samples rece	ived within holdi	ing time?	Yes		No 🗆				
Container/Temp	Blank temperate	ure	Coole	er Temp:	5.4°C		N	Α□	
Water - VOA via	ls have zero hea	adspace / no bubbles?	Yes		No 🗆	No Y	VOA vials submitte	d 🗆	
Sample labels ch	necked for corre	ct preservation?	Yes		No 🗌				
Metal - pH accep	otable upon rece	eipt (pH<2)?	Yes	₩.	No 🗆		N	Α□	
Samples Receive	ed on Ice?		Yes	•	No 🗌				
		(Ice Ty	pe: WE	T ICE)				
* NOTE: If the "N	No" box is check	red, see comments below.							
				===		==			

Environmental	Technical Services	Client Project Nov 2011	ID: LRTO Discharge	Date Sar	npled:	11/29/11	
548 Jacob Av	renue	1107 2011		Date Red	ceived:	11/30/11	
		Client Contact	: Helen Mawhinney	Date Ext	racted	12/01/11	
San Jose, CA 9	95118	Client P.O.: #	TL22336	Date An	alyzed	12/02/11	
traction method: E			terial with Silica Gel Cle	ean Up*		Work Order	: 1111866
Lab ID	Client ID	Matrix	HEMSGT		DF	% SS	Comment
111866-001D	LRTO SW-1 Through SW-7	W	ND		1	N/A	
						+	
-		*					
-						-	
4		1					4
ND m	rting Limit for DF =1; eans not detected at or	W	5.0			mg/	
	ve the reporting limit d all TCLP & SPLP extracts are re	S	NA			NA	

DHS ELAP Certification 1644

____Angela Rydelius, Lab Manager

Environmental Technical Services	Client Project	ID: LRTO Discharge	Date Sampled:	11/29/11	
1540 7 1 4	Nov 2011		Date Received:	11/30/11	
1548 Jacob Avenue	Client Contact	t: Helen Mawhinney	Date Extracted:	12/01/11	
San Jose, CA 95118	Client P.O.: #	TL22336	Date Analyzed:	12/01/11	
Aroma Extraction Method: E602		Γ and GC-PID (602 Targ Method: E602	get List)*	Work Order:	1111866
Lab ID 11	111866-001A				
	TO SW-1 Through W-7 (Composite)		1	Reporting DF	
Matrix	W		1	1	
DF	1			S	W
Compound		Concentration		ug/kg	μg/L
Benzene	ND			NA	0.5
Toluene	ND			NA	0.5
Ethylbenzene	ND		404	NA	0.5
Xylenes, Total	ND			NA	0.5
	Surrogate	Recoveries (%)			
%SS:	100			0.00	
Comments					
water and vapor samples are reported in μ g/L, extracts are reported in mg/L, wipe samples in μ	soil/sludge/solid sample g/wipe.	es in mg/kg, product/oil/non-aqu	eous liquid samples and	all TCLP & SI	PLP

surrogate diluted out of range or surrogate coelutes with another peak.

McC	Campbell Ar	nalytical, Inc	2	Toll Free Teleph	Pass Road, Pittsburg, CA one: (877) 252-9262 / Fax mpbell.com / E-mail: main	: (925) 252-926	
Environmental Te	chnical Services	Client Project	ID: LRTO D	Discharge	Date Sampled:	11/29/11	- 1
1548 Jacob Avenu	1e	Nov 2011			Date Received:	11/30/11	
1340 Jacob 11vene		Client Contact	: Helen Maw	hinney	Date Extracted:	11/30/11	-12/05/11
San Jose, CA 951	18	Client P.O.: #7	ΓL22336		Date Analyzed:	12/05/11	
Analytical Method: SM	5210B	Biochemical Ox	xygen Demar	ad (BOD)*		Work Order:	: 1111866
Lab ID	Client 1	D	Matrix		BOD	DF	Comments
1111866-001E	LRTO SW-1 Thr	ough SW-7	W		ND	1	
							= =
							1 = 3
						111 = 1	1 -
		-	+			+	1
							-
						+	
			-			+	+
						+	-
							1 1
Reporting Limit for I	DF = 1; ND means not de	tected at or above the	W	4	.0 mg/L		
	reporting limit		S		NA		
* water samples are rep	orted in mg/L.						

_____Angela Rydelius, Lab Manager

McCampbell Analytical, Inc. 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 "When Quality Counts" http://www.mccampbell.com / E-mail: main@mccampbell.com **Environmental Technical Services** Client Project ID: LRTO Discharge Date Sampled: 11/29/11 Nov 2011 Date Received: 11/30/11 1548 Jacob Avenue Client Contact: Helen Mawhinney Date Extracted: 11/30/11 San Jose, CA 95118 Client P.O.: #TL22336 Date Analyzed: 12/01/11 Metals* Extraction method: E200.8 Analytical methods: E200.8 Work Order: 1111866 Lab ID Client ID Matrix Extraction Type Lead Nickel Zinc DF % SS Comments Copper LRTO SW-1 Through SW-7 001F W TOTAL 24 4.9 170 100 28

Reporting Limit for DF =1; ND means not detected at or	W	TOTAL	0.5	0.5	0.5	5.0	μg/L
above the reporting limit	S	TOTAL	NA	NA	NA	NA	NA

*water samples are reported in μ g/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in μ g/wipe, filter samples in μ g/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

DHS ELAP Certification 1644



Environmental Technical Services	Client Project ID: LRTO Discharge	Date Sampled: 11/29/11
1548 Jacob Avenue	Nov 2011	Date Received: 11/30/11
15 to succe Themae	Client Contact: Helen Mawhinney	Date Extracted: 11/30/11
San Jose, CA 95118	Client P.O.: #TL22336	Date Analyzed: 11/30/11
	рН*	

Lab ID	Client ID	Matrix	pH	DF	Comment
1111866-001B	LRTO SW-1 Through SW-7	w	7.28 @ 21.7°C	1	
				-	
-				- 1	
					1

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C
	S	NA

DF = Dilution Factor

Angela Rydelius, Lab Manager

^{*} According the formal method, this is "field test" with a 15 minute Hold Time. However, as this is unrealistically short for commercial environmental analysis, MAI has designated a 24 hour hold time for aqueous samples.

С	Campbell Ar		2.	Toll Free Telep	w Pass Road, Pittsburg, CA phone: (877) 252-9262 / Fax ampbell.com / E-mail: main	:: (925) 252-926					
Environmental '	Technical Services	Client Project	ID: LRTO D	ischarge	Date Sampled: 11/29/11						
1548 Jacob Ave	enue	Nov 2011			Date Received: 11/30/11						
10 10 000 1110	Sinde	Client Contact	: Helen Mawl	ninney	Date Extracted: 11/30/11						
San Jose, CA 9	5118	Client P.O.: #	TL22336		Date Analyzed:	12/05/11					
Analytical Method: 1	E120.1	Specific	Specific Conductivity* Work Order: 1111866								
Lab ID	Client I	D	Matrix	Specif	ic Conductivity	DF	Comments				
1111866-001B	LRTO SW-1 Thro	ough SW-7	W	395	60 @ 25.0°C	1					
							= =				
							1 = 1				
							= =				
						1					
						1					
						1 =					
						1	1				
Reporting Limit for	or DF = 1; ND means not det reporting limit	ected at or above the	S S	10 μml	nos/cm @ 25°C NA						
DF = Dilution Factor	r				IVA						

_____Angela Rydelius, Lab Manager

Reporting Limit for DF = 1; ND means not detected at or above the	W	1.0 mg/L	
reporting limit	S	NA	

* water samples reported in mg/L.

DF = Dilution Factor



QC SUMMARY REPORT FOR E1664A

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 63031 WorkOrder: 1111866

EPA Method: E1664A Extraction: E1664A Spiked Sample ID: N/A												
Analyte	Sample Spiked MS MSD		MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
Analyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
НЕМ	N/A	20.83	N/A	N/A	N/A	97.7	94.4	3.42	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 63031 SUMMARY

I	_ab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
	1111866-001D	11/29/11 1:00 PM	I 12/01/11	12/02/11 3:15 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate therefore unable to comply with method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR EPA 602

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 63061 WorkOrder: 1111866

EPA Method: E602	ethod: E602 Extraction: E602 Spiked Sample ID: 1111880-0											55A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	. 1
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
МТВЕ	ND	10	102	110	7.47	104	101	3.07	70 - 130	20	70 - 130	20
Benzene	ND	10	122	123	1.00	121	118	2.61	70 - 130	20	70 - 130	20
Toluene	ND	10	105	108	2.30	106	104	2.00	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	107	109	1.19	106	107	0.194	70 - 130	20	70 - 130	20
%SS:	103	10	103	106	2.62	106	104	1.52	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 63061 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111866-001A	11/29/11 1:00 PM	12/01/11	12/01/11 4:59 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

QC SUMMARY REPORT FOR SM5210B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 63078 WorkOrder: 1111866

EPA Method: SM5210B	S	Spiked Sample ID: N/A										
Analyte	Sample Spiked MS MS		MSD	MS-MSD LCS		LCSD	LCS-LCSD	Acceptance Criteria (%)				
Allalyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
BOD	N/A	198	N/A	N/A	N/A	98.7	100	1.27	N/A	N/A	80 - 120	16

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 63078 SUMMARY

Lab ID		Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111866	6-001E	11/29/11 1:00 PM	11/30/11	12/05/11 2:38 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 63019 WorkOrder: 1111866

EPA Method: E200.8 Extraction: E200.8 Spiked Sample ID: 11											1111683-0	03A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Copper	53	10	NR	NR	NR	98.9	107	7.77	70 - 130	20	85 - 115	20
Lead	ND	10	102	102	0	94.5	102	8.02	70 - 130	20	85 - 115	20
Nickel	0.61	10	101	102	1.02	98.2	106	7.81	70 - 130	20	85 - 115	20
Zinc	ND	100	102	104	1.77	97.5	106	8.42	70 - 130	20	85 - 115	20
%SS:	109	750	108	113	4.69	108	110	1.81	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 63019 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111866-001F	11/29/11 1:00 PM	1 11/30/11	12/01/11 10:51 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM4500H+B (pH) Matrix: W WorkOrder: 1111866

Method Name: SM45	500H+B		Units: ±, pH u	nits @ °C		BatchID: 63048		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	Precision	Acceptance Criteria		
1111866-001B	7.28 @ 21.7°C	1	7.30 @ 21.9°C	1	0.02	0.05		

BATCH 63048 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111866-001B	11/29/11 1:00 PI	M 11/30/11	11/30/11 2:11 PM				

Test Method: SM2540D (TSS) Matrix: W WorkOrder: 1111866

Method Name: S	M2540D		Units: mg/L	BatchID: 63077		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1111866-001C	47.6	2	47.2	2	0.844	<15

BATCH 63077 SUMMARY

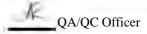
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111866-001C	11/29/11 1:00 Pi	M 11/30/11	11/30/11 6:05 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: E120.1 (Specific Conductivity) Matrix: W WorkOrder: 1111866

Method Name: E120	.1		Units: µmhos/cm @ 25°C BatchID: 63050			BatchID: 63050
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1111866-001B	3950 @ 25.0°C	1	3940 @ 25.0°C	1	0.101	<2

BATCH 63050 SUMMARY

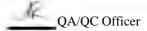
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1111866-001B	11/29/11 1:00 PI	M 11/30/11	12/05/11 2:20 PM				

Dup = Duplicate; SD = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

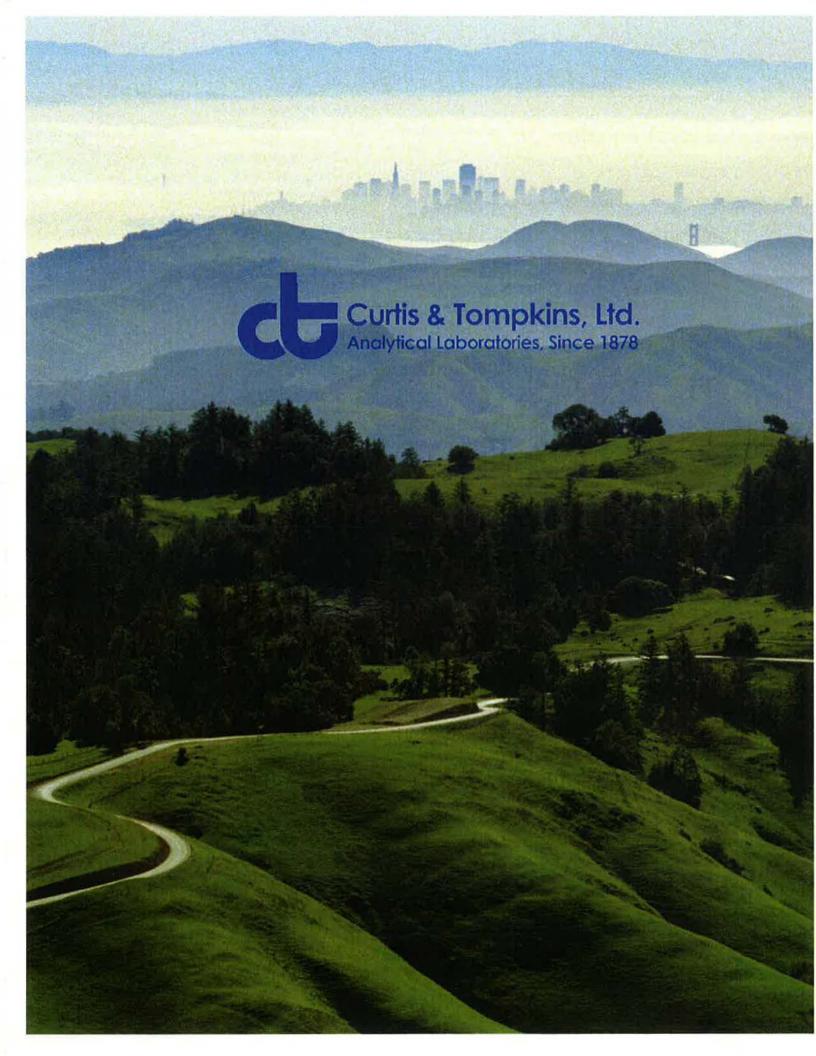
RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



Discharge To Sanitary Sewer Stormwater Systems Cleanout Sampling Events

March 29, 2012





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 235229 ANALYTICAL REPORT

Environmental Tech. Services

1548 Jacob Avenue San Jose, CA 95118 Project : STANDARD

Location : LRTO Discharge

Level : II

	Sar	mple ID	Lab ID
LRTO	SW	2	235229-001
LRTO	SW	4	235229-002
LRTO	SW	5	235229-003
LRTO	SW	6	235229-004
LRTO	SW	7	235229-005
LRTO	SW	(2,4,5,6,7)	235229-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Project Manager

Date: <u>04/02/2012</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: 235229

Client: Environmental Tech. Services

Location: LRTO Discharge

Request Date: 03/29/12 Samples Received: 03/29/12

This data package contains sample and QC results for one five-point water composite, requested for the above referenced project on 03/29/12. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8021B):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):

Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

pH (EPA 9040C):

No analytical problems were encountered.

CHAIN OF CUSTODY

323 Fifth Street erkeley, CA 94710 oject No: /RTO DISCH	Phone (5	10) 486-09 10) 486-09	200	, ,	. ,	,	35			1	25	AN	AL V		AL	REQ	UEST	MS)	
oject Name: Same & abo oject P. O. No: TL 224	Real Real Real Real Real Real Real Real	eport To: ompany: g elephone: nail: h	NVI 831	AM	Teg ney	H, S	SERI SERI	2014		D:1 . C. Den	UII ICKENSE						inthe area Co	engle (40	is sample
Sample ID. No. LETO 1 SW 2 2 LETO 5W 4 3 LETO 5W 5	Date Collected	Time Collected	TT		HCI HCI	70		None	7:	3/10	100	Colle	1 Lead	42/2/2	V CLE	7	Month	mels	All oth
- LRTO SW 7	929/16	2:25	×	ġ					5	Carres	V	A	Λ	V	V				
FPA Nicthada per 46 LIER 136	SAMPLE RECEIPT Intact Cold On Ice	July 1		LING	DUISHE		9-12 17-72	ME 3')	_		3 1/2-	Fe	100	REC	The		7-24 ATE:	9/12 FIME	

CotorChoice" (UPTI) & THOMPKINS (179 SAMPLE)

LEVIN RICHMOND TERMINAL CORP.

402 WRIGHT AVENUE RICHMOND, CA 94804-3532

Show this Purchase Order Number on all correspondence, invoices, shipping papers and packages.

22480

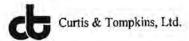
	03/29/12 REQUISITION NO. 740
O	A. MAWHINNEY

EQUISITIONED BY	WHEN SHIP	P SH	SHIP VIA F.O.B. POINT		TE	RMS
H-MODIFICALLY						
QTY. ORDERED	QTY. RECEIVED	STOC	CK NO. / DESCRIP	TION	UNIT PRICE	TOTAL
1		CITY PISCHA	ARCGE SAM	PUNG		

Please send copies of your invoice.
 Order is to be entered in accordance with prices, delivery and specifications shown above.
 Notify us immediately if you are unable to ship as specified.

OK TO PAY

COOLER RECEIPT CHECKLIST



Login # 235729 Date Received 3/21/12 N	umber of coolers
Client ETS Project LRO D3	chorge Yzaz
	The same
Date Opened 3/29/12 By (print) C- Morrow (sign)	STOCK C
Date Logged in By (print) (sign)	
Did cooler come with a shipping slip (airbill, etc) Shipping info	YES NO
2A. Were custody seals present? YES (circle) on cooler How many Name	on samples NO Date
2B. Were custody seals intact upon arrival?	YES NO MA
Were custody papers dry and intact when received?	YES NO
4. Were custody papers filled out properly (ink, signed, etc)?	ODS NO
5. Is the project identifiable from custody papers? (If so fill out top of	f form) NO
6. Indicate the packing in cooler: (if other, describe)	
☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ Cloth material ☐ Cardboard ☐ Styrofoam 7. Temperature documentation: * Notify PM if temperature exc	
Type of ice used: ✓ Wet ☐ Blue/Gel ☐ None	
☐ Samples Received on ice & cold without a temperature bla	
Samples received on ice directly from the field. Cooling pr	rocess had begun
8. Were Method 5035 sampling containers present?	YES NO
If YES, what time were they transferred to freezer?	
9. Did all bottles arrive unbroken/unopened?	YES NO
10. Are there any missing / extra samples?	YES NO.
11. Are samples in the appropriate containers for indicated tests?	YES NO
12. Are sample labels present, in good condition and complete?	NO NO
13. Do the sample labels agree with custody papers?	MES NO
14. Was sufficient amount of sample sent for tests requested?	MES NO N/A
15. Are the samples appropriately preserved?	MES NO N/A
17. Did you document your preservative check?	YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs?	
19. Did you change the hold time in LIMS for preserved terracores?	
20. Are bubbles > 6mm absent in VOA samples?	(RES NO N/A
21. Was the client contacted concerning this sample delivery?	
If YES, Who was called? By	
COMMENTS	

Curtis & Tompkins Sample Preservation for 235229

Sample	pH:	<2	>12	Other
-006a		[]	[]	
b		M	[]	
C		ĹŢ	[]	

Analyst: Chy Date: 3/20/12

Page 1 of 1



	Benzene, Toluene, E	thylbenzene	Xylenes
Lab #:	235229	Location:	LRTO Discharge
Client:	Environmental Tech. Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8021B
Field ID:	LRTO SW (2,4,5,6,7)	Batch#:	185098
Matrix:	Water	Sampled:	03/29/12
Units:	ug/L	Received:	03/29/12
Diln Fac:	1.000	Analyzed:	03/30/12

Type: SAMPLE

Lab ID: 235229-006

Analyte	Result	RL	
Benzene	ND	0.50	
Toluene	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits	
Bromofluorobenzene (PID)	96	70-125	

Type:

BLANK

Lab ID: QC633878

Analyte	Result	RL	
Benzene	ND	0.50	
Toluene	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits	
Bromofluorobenzene (PID)	98	70-125	

ND= Not Detected RL= Reporting Limit

Page 1 of 1



Benzene, Toluene, Ethylbenzene, Xylenes			
Lab #:	235229	Location:	LRTO Discharge
Client:	Environmental Tech. Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8021B
Matrix:	Water	Batch#:	185098
Units:	ug/L	Analyzed:	03/30/12
Diln Fac:	1,000		

Type: BS

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	10.06	101	78-120
Toluene	10.00	10.51	105	80-120
Ethylbenzene	10.00	9.658	97	80-120
m,p-Xylenes	10.00	9.897	99	80-120
o-Xylene	10.00	9.921	99	80-120

Lab ID: QC633875

Surrogate	%REC	Limits	
Bromofluorobenzene (PID)	95	70-125	

Type: BSD Lab ID: QC633876

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	10.00	10.25	103	78-120	2	31
Toluene	10.00	10.57	106	80-120	1	20
Ethylbenzene	10.00	9,983	100	80-120	3	20
m,p-Xylenes	10.00	10.03	100	80-120	1	20
o-Xylene	10.00	9.967	100	80-120	0	20

Surrogate	%REC	Limits	
Bromofluorobenzene (PID)	99	70-125	



	Metals Anal	ytical Repor	rt
Lab #:	235229	Location:	LRTO Discharge
Client:	Environmental Tech. Services	Prep:	EPA 3010A
Project#:	STANDARD	Analysis:	EPA 6010B
Field ID:	LRTO SW (2,4,5,6,7)	Sampled:	03/29/12
Matrix:	Water	Received:	03/29/12
Units:	ug/L	Prepared:	03/30/12
Diln Fac:	1.000	Analyzed:	04/02/12
Batch#:	185104		

Type:

SAMPLE

Lab ID:

235229-006

Analyte	Result	RL	
Copper	8.7	5.0	
Copper Lead	9.7	5.0	
Nickel	ND	5.0	
Zinc	60	20	

Type: BLANK

Lab ID:

QC633899

Analyte	Result	RL	
Copper	ND	5.0	
Lead	ND	5.0	
Nickel	ND	5.0	
Zinc	ND	20	

ND= Not Detected RL= Reporting Limit

Page 1 of 1



	Metals Anal	ytical Repor	t	
Lab #:	235229	Location:	LRTO Discharge	
Client:	Environmental Tech. Services	Prep:	EPA 3010A	
Project#:	STANDARD	Analysis:	EPA 6010B	
Matrix:	Water	Batch#:	185104	
Units:	ug/L	Prepared:	03/30/12	
Diln Fac:	1.000	Analyzed:	04/02/12	

Type: BS

Lab ID: QC633900

Analyte	Spiked	Result	%REC	Limits
Copper	250.0	233.3	93	78-120
Lead	100.0	95.96	96	78-120
Nickel	500.0	484.0	97	80-120
Zinc	500.0	489.6	98	80-120

Type: BSD Lab ID: QC633901

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Copper	250.0	240.4	96	78-120	3	20
Lead	100.0	95.64	96	78-120	0	20
Nickel	500.0	498.8	100	80-120	3	20
Zinc	500.0	504.8	101	80-120	3	20



Metals Analytical Report					
Lab #:	235229	Location:	LRTO Discharge		
Client:	Environmental Tech. Services	Prep:	EPA 3010A		
Project#:	STANDARD	Analysis:	EPA 6010B		
Field ID:	ZZZZZZZZZZ	Batch#:	185104		
MSS Lab ID:	235213-001	Sampled:	03/28/12		
Matrix:	Water	Received:	03/28/12		
Units:	ug/L	Prepared:	03/30/12		
Diln Fac:	1.000	Analyzed:	04/02/12		

Type: MS

Lab ID:

QC633902

Analyte	MSS Result	Spiked	Result	%REC	Limits
Copper	50.49	250.0	271.0	88	70-122
Lead	16.55	100.0	104.4	88	62-120
Nickel	5.106	500.0	467.7	93	71-120
Zinc	523.9	500.0	938.4	83	75-124

Type:

MSD

Lab ID:

QC633903

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Copper	250.0	276.1	90	70-122	2	25
Lead	100.0	107.7	91	62-120	3	29
Nickel	500.0	473.7	94	71-120	1	21
Zinc	500.0	946.8	85	75-124	1	25



Total Oil & Grease (HEM)					
Lab #:	235229	Location:	LRTO Discharge		
Client:	Environmental Tech. Services	Prep:	METHOD		
Project#:	STANDARD	Analysis:	EPA 1664A		
Analyte:	Oil & Grease (HEM)	Batch#:	185124		
Field ID:	LRTO SW (2,4,5,6,7)	Sampled:	03/29/12		
Matrix:	Water	Received:	03/29/12		
Units:	mg/L	Analyzed:	04/02/12		

Type	Lab ID	Result	RL	Diln Fac	
SAMPLE	235229-006	ND	4.70	0.9400	
BLANK	QC633965	ND	5.00	1.000	



Total Oil & Grease (HEM)					
Lab #:	235229	Location:	LRTO Discharge		
Client:	Environmental Tech. Services	Prep:	METHOD		
Project#:	STANDARD	Analysis:	EPA 1664A		
Analyte:	Oil & Grease (HEM)	Batch#:	185124		
Field ID:	ZZZZZZZZZZ	Sampled:	03/28/12		
MSS Lab ID:	235209-001	Received:	03/28/12		
Matrix:	Water	Analyzed:	04/02/12		
Units:	mg/L				

Туре	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
LCS	QC633966		40.00	35.60	89	78-114			1.000
MS	QC633967	<4.700	38.40	34.52	90	25-139			0.9600
MSD	QC633968		38.60	32.92	85	25-139	5	59	0.9700



рн						
Lab #:	235229	Location:	LRTO Discharge			
Client:	Environmental Tech. Services	Prep:	METHOD			
Project#:	STANDARD	Analysis:	EPA 9040C			
Analyte:	pH	Diln Fac:	1.000			
Field ID:	LRTO SW (2,4,5,6,7)	Batch#:	185056			
Lab ID:	235229-006	Sampled:	03/29/12 15:20			
Matrix:	Water	Received:	03/29/12			
Units:	SU	Analyzed:	03/29/12 16:15			

Result	RL	
6.9	1.0	



рН					
Lab #:	235229	Location:	LRTO Discharge		
Client:	Environmental Tech. Services	Prep:	METHOD		
Project#:	STANDARD	Analysis:	EPA 9040C		
Analyte:	рН	Units:	SU		
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000		
Type:	SDUP	Batch#:	185056		
MSS Lab ID:	235218-004	Sampled:	03/29/12 09:15		
Lab ID:	QC633726	Received:	03/29/12		
Matrix:	Water	Analyzed:	03/29/12 12:30		

MSS Result	Result	RL	RPD	Lim
7.160	7.140	1.000	0	20

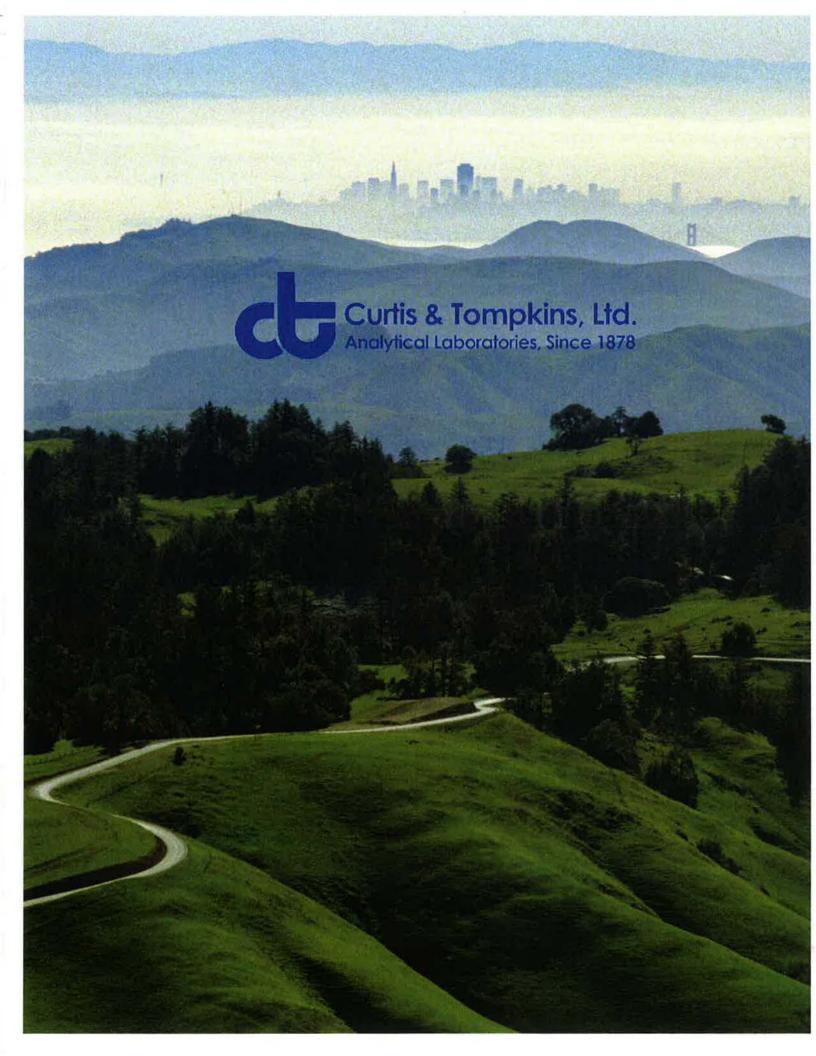
RL= Reporting Limit

RPD= Relative Percent Difference

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Discharge To Sanitary Sewer Stormwater Systems Cleanout Sampling Events

April 5, 2012





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 235414 ANALYTICAL REPORT

Environmental Tech. Services

1548 Jacob Avenue

San Jose, CA 95118

Project : STANDARD

Location: LRTO Disch 1+3 120405

Level : II

	Samp	le ID	Lab ID
LRTO	SW-1	+ SW-3	235414-001
SW-1			235414-002
SW-3			235414-003
SW-1	SW-3	COMPOSITE	235414-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Project Manager

NELAP # 01107CA

Date: 04/13/2012



CASE NARRATIVE

Laboratory number: 235414

Client: Environmental Tech. Services

Location: LRTO Disch 1+3 120405

Request Date: 04/06/12 Samples Received: 04/06/12

This data package contains sample and QC results for two water samples, requested for the above referenced project on 04/06/12. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 624):

No analytical problems were encountered.

Metals (EPA 200.7):

No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):

Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

pH (EPA 9040C):

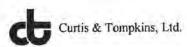
No analytical problems were encountered.

CHAIN OF CUSTODY

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COOLER RECEIPT CHECKLIST



Client	# 235			Received			Number of			-
	Enu	. Tech	. Suis.	P	roject_	LRTO	Oisch 11	7 12	2044	5
Date O	pened)	1/6/12	By (print)	c Mi	man	(sign)_	CR	~		
Date L	ogged in	"1	By (print)			(sign)_	4			
1. Did	cooler co		a shipping sl	ip (airbill,	etc)			_YES	Ø0	ر
2A. W			resent?		(circle)	on coole	er on sam Date	ples	M	NO
2B. W			ntact upon ar					YES	NO	NA
			ry and intact		eived?			(YES	NO	0
			lled out proj			etc)?		YES	NO	
			ble from cus				p of form)	YES	NO	
			cooler: (if							
7	Cloth :	e Wrap material		ooard		tyrofoam	□P	lone aper tov	wels	
/. Tem	perature	documen	tation:	* Notity P	M II ten	iperature e				
	Type of	ice used:	Wet Wet	☐ Blue/G	Gel 🗆	None	Temp(°C)	3	9	
	Samr	les Recei	ved on ice &	cold with	out a ter	nnerature	blank: temp	taken	with	Reu
			ed on ice di						-	
9. Did 10. Are 11. Are	all bottles there an samples	s arrive un y missing in the ap	were they to nbroken/uno description / extra samp propriate consent, in good sent, in good	pened? oles? ntainers for	r indicat	ed tests?_			YES (YES)	NO NO
					and con					INC
3. 00	are sairt	ne ideets		ustody nan		npicte:			1.00	Ga
4. Wa	s sufficie			ustody pap sent for tes	ers?	1000			YES	NO NO
		nt amoun	t of sample	sent for tes	ers?	1000		{	1.00	NO
5. Are	the sam	ent amoun ples appro		sent for tes served?	ers? ets reque	sted?		WES Y	YES	NO N/A
5. Are 6. Did	the sam	ent amoun ples appro ck preserv	t of sample priately pre	sent for tes served? I bottles fo	ers? ets reque or each s	sted?			YES NO 1 NO 1 NO 1	NO N/A N/A N/A
5. Are 6. Did 7. Did 8. Did	the sample the sample	ent amount ples appro ck preserv ument younge the ho	opriately pre- vatives for al ur preservation	sent for tes served? l bottles fo ve check? IMS for un	ers? ets reque or each s npreserv	sted?ample?		YES	NO I	NO N/A N/A N/A N/A
5. Are 6. Did 7. Did 8. Did 9. Did	the samply you che you doc you cha you cha you cha	ent amount ples appro- ck preserv ument younge the ho nge the ho	of sample appriately pre- vatives for all ur preservations in Lold time in Lold ti	sent for tesserved?	ers?ets reque or each s npreserved	sted?ample?	?	YES YES	NO I NO I NO I NO I NO I	NO V/A V/A V/A V/A
5. Are 6. Did 7. Did 8. Did 9. Did 20. Are	the sample the sample to the s	ent amount ples approck preservation to the horizontal preservation and the horizontal preserv	or tof sample appriately pre- vatives for all ur preservation of time in Lold time in Lold time in Lold time in VO.	sent for tesserved?	ers?ets reque or each s npreserved ?	sted? ample? ed VOAs? terracores	?	YES YES YES	YES NO I NO I NO I NO I NO I	NO N/A N/A N/A
5. Are 6. Did 7. Did 8. Did 9. Did 20. Are 21. Wa	the sample to th	ent amount ples approck preserve ument younge the hounge opriately pre- vatives for al ur preservation Lold time in Lold time in Lold time in VO. bsent in VO.	sent for tesserved?	ers?ets reque or each s npreserved reserved?nple deli	sted? ample? red VOAs? terracores very?		YES YES YES	NO I NO I NO I NO I NO I	NO N/A N/A N/A	
5. Are 6. Did 7. Did 8. Did 9. Did 20. Are	the sample to th	ent amount ples approck preservation to the horizontal preservation and the horizontal preserv	opriately pre- vatives for al ur preservation Lold time in Lold time in Lold time in VO. bsent in VO.	sent for tesserved?	ers?ets reque or each s npreserved ?	sted? ample? red VOAs? terracores very?		YES YES YES	YES NO I NO I NO I NO I NO I	NO N/A N/A N/A
15. Are 16. Did 17. Did 18. Did 19. Did 20. Are 21. Wa	the samply you che you doc you char you char you char bubbles the clie If YES, MENTS	ent amount ples approck preservument younge the hounge	opriately prevatives for all ur preservation of time in Lold time in Lold time in Lold time in Volted concerning called?	sent for tesserved?	ers?ets reque or each s npreserved reserved?nple deli	sted? ample? red VOAs? terracores very?		YES YES YES	YES NO I NO I NO I NO I NO I	NO N/A N/A N/A N/A
15. Are 16. Did 17. Did 18. Did 19. Did 20. Are 21. Wa	the sample you cheed you change bubbles as the clie of YES, YESTS	ent amount ples approck preservument younge the hounge	opriately prevatives for al ur preservation of time in Lold time in Lold time in Lold time in VO. ted concerning called?	sent for tesserved?	ers?ets reque or each s npreserved ? By	sted? ample? red VOAs? terracores very?		YES YES YES	YES NO I NO I NO I NO I NO I	NO N/A N/A N/A
15. Are 16. Did 17. Did 18. Did 19. Did 20. Are 21. Wa	the samply you che you chan you chan bubbles is the clie of YES, YENTS	ent amount ples approck preserve ument younge the hounge t of sample opriately prevatives for all ur preservation of time in Lold time in Lold time in Lold time in Volted concernicalled?	sent for tesserved?	ers?ets reque or each s npreserved ? By	sted? ample? red VOAs? terracores very?		YES YES YES	YES NO I NO I NO I NO I NO I	NO N/A N/A N/A	
5. Are 6. Did 7. Did 8. Did 9. Did 0. Are 1. Wa	the sample you cheed you change bubbles as the clie of YES, YESTS	ent amount ples approck preserve ument younge the hounge t of sample opriately prevatives for all ur preservation of time in Lold time in Lold time in Lold time in Volted concernicalled?	sent for tesserved?	ers?ets reque or each s npreserved ?eserved ?eserved By	sted? ample? red VOAs? terracores very?	enty rec	YES YES YES	YES NO I NO I NO I NO I NO I	NO N/A N/A N/A	

Rev 10, 11/11

Curtis & Tompkins Sample Preservation for 235414

Sample	pH:	<2	>12	Other
-001a	-	[]	[]	
b		[/]	[]	
C		[]	[]	

Analyst: CPM
Date: U/6/19
Page 1 of 1

5 of 14



			2
Lab #:	235414	Location:	LRTO Disch 1+3 120405
Client:	Environmental Tech. Services	Prep:	EPA 624
Project#:	STANDARD	Analysis:	EPA 624
Field ID:	SW-1 SW-3 COMPOSITE	Batch#:	185400
Matrix:	Water	Sampled:	04/05/12
Units:	ug/L	Received:	04/06/12
Diln Fac:	1,000	Analyzed:	04/10/12

Type: SAMPLE Lab ID: 235414-004

Analyte	Result	RL	
Benzene	ND	0.5	
Toluene	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	0.5	0.5	

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	93	69-145	
Toluene-d8	98	80-120	
Bromofluorobenzene	87	80-120	

Type: BLANK Lab ID: QC635053

Analyte	Result	RL	
Benzene	ND	0.5	
Toluene	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	92	69-145	
Toluene-d8	98	80-120	
Bromofluorobenzene	92	80-120	

ND= Not Detected RL= Reporting Limit

Page 1 of 1



	Curtis & Tompkins Labor	atories Anal	ytical Report
Lab #:	235414	Location:	LRTO Disch 1+3 120405
Client:	Environmental Tech. Services	Prep:	EPA 624
Project#:	STANDARD	Analysis:	EPA 624
Matrix:	Water	Batch#:	185400
Units:	ug/L	Analyzed:	04/10/12
Diln Fac:	1.000		

Type: BS

Lab ID: QC635051

Analyte	Spiked	Result	%REC	Limits
Benzene	25.00	22.28	89	80-121
Toluene	25.00	22.63	91	80-120
Ethylbenzene	25.00	22.41	90	80-120
m,p-Xylenes	50.00	46.09	92	80-121
o-Xylene	25.00	20.87	83	80-121

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	92	69-145	
Toluene-d8	96	80-120	
Bromofluorobenzene	90	80-120	

Type: BSD Lab ID: QC635052

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	25.00	23.49	94	80-121	5	20
Toluene	25.00	23.64	95	80-120	4	20
Ethylbenzene	25.00	23.46	94	80-120	5	20
m,p-Xylenes	50.00	48.33	97	80-121	5	20
o-Xylene	25.00	21.66	87	80-121	4	20

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	94	69-145	
Toluene-d8	97	80-120	
Bromofluorobenzene	90	80-120	



	Metals Anal	ytical Repor	t
Lab #:	235414	Location:	LRTO Disch 1+3 120405
Client:	Environmental Tech. Services	Prep:	EPA 200.7
Project#:	STANDARD	Analysis:	EPA 200.7
Field ID:	LRTO SW-1 + SW-3	Sampled:	04/05/12
Matrix:	Water	Received:	04/06/12
Units:	ug/L	Prepared:	04/06/12
Diln Fac:	1.000	Analyzed:	04/09/12
Batch#:	185326		

Type: SAMPLE

Lab ID: 235414-001

Analyte	Result	RL	
Copper	68	5.0	
Lead	150	5.0	
Nickel	14	5.0	
Zinc	990	20	

Type: BLANK Lab ID: QC634758

Analyte	Result	RL	
Copper	ND	5.0	
Lead	ND	5.0	
Nickel	ND	5.0	
Zinc	ND	20	

ND= Not Detected RL= Reporting Limit Page 1 of 1



QC634759

Batch QC Report

	Metals Anal	ytical Repor	rt .
Lab #:	235414	Location:	LRTO Disch 1+3 120405
Client:	Environmental Tech, Services	Prep:	EPA 200.7
Project#:	STANDARD	Analysis:	EPA 200.7
Matrix:	Water	Batch#:	185326
Units:	ug/L	Prepared:	04/06/12
Diln Fac:	1.000	Analyzed:	04/09/12

Type: BS Lab ID:

Analyte	Spiked	Result	%REC	Limits
Copper	250.0	234.1	94	78-120
Lead	100.0	97.89	98	78-120
Nickel	500.0	504.2	101	80-120
Zinc	500.0	521.6	104	80-120

Type: BSD Lab ID: QC634760

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Copper	250.0	238.1	95	78-120	2	20
Lead	100.0	100.2	100	78-120	2	20
Nickel	500.0	507.7	102	80-120	1	20
Zinc	500.0	526.8	105	80-120	1	20



Metals Analytical Report					
Lab #:	235414	Location:	LRTO Disch 1+3 120405		
Client:	Environmental Tech. Services	Prep:	EPA 200.7		
Project#:	STANDARD	Analysis:	EPA 200.7		
Field ID:	LRTO EQUIP WASH	Batch#:	185326		
MSS Lab ID:	235413-001	Sampled:	04/05/12		
Matrix:	Water	Received:	04/06/12		
Units:	ug/L	Prepared:	04/06/12		
Diln Fac:	1.000	Analyzed:	04/09/12		

Type: MS

Lab ID:

QC634761

Analyte	MSS Result	Spiked	Result	%REC	Limits
Copper	7.451	250.0	282.2	110	70-122
Lead	8.682	100.0	115.6	107	62-120
Nickel	6.132	500.0	559.3	111	71-120
Zinc	188.8	500.0	792.7	121	75-124

Type: MSD Lab ID: QC634762

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Copper	250.0	257,1	100	70-122	9	25
Lead	100.0	104.5	96	62-120	10	29
Nickel	500.0	512.1	101	71-120	9	21
Zinc	500.0	725,4	107	75-124	9	25



	Total Oil &	Grease (HEM	I)
Lab #:	235414	Location:	LRTO Disch 1+3 120405
Client:	Environmental Tech. Services	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Batch#:	185357
Field ID:	LRTO SW-1 + SW-3	Sampled:	04/05/12
Matrix:	Water	Received:	04/06/12
Units:	mg/L	Analyzed:	04/09/12

Type	Lab ID	Result	RL	Diln Fac	
	235414-001	10.7	4.70	0.9400	
BLANK	QC634871	ND	5.00	1.000	



	Total Oil &	Grease (HEM	1)
Lab #:	235414	Location:	LRTO Disch 1+3 120405
Client:	Environmental Tech. Services	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Batch#:	185357
Field ID:	ZZZZZZZZZZ	Sampled:	04/04/12
MSS Lab ID:	235384-001	Received:	04/05/12
Matrix:	Water	Analyzed:	04/09/12
Units:	mg/L	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	

Туре	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
LCS	QC634872		40.00	39,20	98	78-114			1.000
MS	QC634873	<5.400	44.00	37.80	86	25-139			1.100
MSD	QC634874		40.80	35.10	86	25-139	0	59	1.020



		рН	
Lab #:	235414	Location:	LRTO Disch 1+3 120405
Client:	Environmental Tech. Services	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 9040C
Analyte:	рН	Diln Fac:	1.000
Field ID:	LRTO SW-1 + SW-3	Batch#:	185315
Lab ID:	235414-001	Sampled:	04/05/12 12:49
Matrix:	Water	Received:	04/06/12
Units:	SU	Analyzed:	04/06/12 12:07

Result	RL	
7.0	1.0	



рн					
Lab #:	235414	Location:	LRTO Disch 1+3 120405		
Client:	Environmental Tech. Services	Prep:	METHOD		
Project#:	STANDARD	Analysis:	EPA 9040C		
Analyte:	рН	Units:	SU		
Field ID:	LRTO SW-1 + SW-3	Diln Fac:	1.000		
Type:	SDUP	Batch#:	185315		
MSS Lab ID:	235414-001	Sampled:	04/05/12 12:49		
Lab ID:	QC634719	Received:	04/06/12		
Matrix:	Water	Analyzed:	04/06/12 12:07		

MSS Result	Result	RL	RPD	Lim	
7.040	7.060	1.000	0	20	

RPD= Relative Percent Difference

Certified Laboratory Analytical Reports Chain of Custody Other Sampling Events

October 27, 2011 January 25, 2012 March 14, 2012 May 9, 2012

Other Sampling Events

October 27, 2011

Analytical Report

Environmental Technical Services	Client Project ID: SW-7	Date Sampled: 10/27/11
1548 Jacob Avenue		Date Received: 10/28/11
1348 Jacob Avenue	Client Contact: Helen Mawhinney	Date Reported: 11/04/11
San Jose, CA 95118	Client P.O.: #TL22318	Date Completed: 11/04/11

WorkOrder: 1110897

November 04, 2011

Dear Helen:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: SW-7,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD

PITTSBURG, CA 94565-1701

TURN AROUND TIME

CHAIN OF CUSTODY RECORD

Website: www.mccampbell.com Email: main/a mccampbell.com

RUSH 24 HR 48 HR 72 HR 5 DAY

	ephone: (877		ii Libai		Fax									G	ieo	Tra	ick	er l	EDI	FC	_											(is required
Report To: HELE	N MAWHI	NNEY	Bill	То	: SA	ME													1	Lnal											ther	Comments
Company: ENVIRONMENTAL TECHNICAL SERVICES 1548 JACOB AVENUE SAN JOSE, CA 95118 E-Mail: hmawhinneyets@aol.com Tele: (831) 236-9221 Fax: () Project #: Project Name: Project Location: 402 WRIGHT AVENUE, RICHMOND, CA 94804					& ALLIMINUM, IKON			NOCs)	(2 / 8021)	des)	Aroclors / Congeners		bicides)		-	PNAsj	6010 / 6020)	6010 / 6020)		metals analysis		**Indicate here if these samples are potentially dangerous to handle:										
Sampler Signatur	e:				POA	TL		3		_					M			171 (6	P.A 64	estici	1.8	E	Her	(\$ XC	000	Hs.	8.00	0.87		VED		
		SAMPLI	ING		2		MA	TRI	IX		MET				& ALI			38 / 016	LY (E)	(CIP	3.50	CIII	idic C	N) 09	150 (S)	10 (PA	0,7/2	02/20		SSOL		
SAMPLE ID	LOCATION/ Field Point Name	Date	Ti me	# Containers	Type Containers	Water	Soil	Air	Sludge	ICE	HCL	HNO	Other	8260 FULL LIST	CAM 17 METALS.	TPHD 8015	TPH-MO 8015	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MITHE / HITEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CT Pesticides)	EPA 608 / 8082 PC B's ONLY; Araclors / C	SPECIFIC CONDUCTIVITY	EPA 515 / 8151 (Acidic C1 Herbicides)	EPA 524,2 / 624 / 8260 (VOK's)	EPA \$25.2 / 625 / 8270 (SVCK's)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200,7 / 200,8 / 6010 /	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	PII	Filter sample for DISSOLVED metals analysis	202	
560-7 Baffle		10-27-11	B:4	1		X				2	(Г								X	,	X									X	
4427 Overed	Line	10-27-11	132/	1		1												1	18	*	No	X									X	HOID
SW7 Into)	10-27-11	137							T									1		1	X									X	
700 / 4 // 5									Ŧ	-																					Щ,	
						F			+	-																						
										1																						
**MAI clients MUST gloved, open air, samp																																

allowing us to work safely. Date: Time: Received By: COMMENTS:

Relinquished By:	Date:	132F Time:	Received By:
Relingaisted West	Date: 728/11	Time:	Received By:

GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB

VOAS O&G METALS OTHER

PRESERVATION pH<2

McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

Page

JAG	1534 Willow Pass Rd
-	Pittsburg, CA 94565-1701
-	(925) 252-9262

WorkOrder: 1110897

Collection Date Hold

10/27/2011 13:21

10/27/2011 13:21

ClientCode: ETS

7

☐ WaterTrax WriteOn EDF Excel Fax **✓** Email HardCopy

ThirdParty J-flag

5 days

Report to:

Lab ID

1110897-001

1110897-003

Helen Mawhinney

Email: **Environmental Technical Services**

1548 Jacob Avenue

San Jose, CA 95118

510-385-4308

FAX: 510-522-6259

Client ID

SW-7 Battle

SW-7 Inflow

CC:

HMawhinneyETS@aol.com; james.jimenez

PO:

#TL22318 ProjectNo: SW-7

Matrix

Water

Water

Helen Mawhinney

Bill to:

2

A

A

1

A

Environmental Technical Services

1548 Jacob Avenue

San Jose, CA 95118

3

A

A

james.jimenez@sbcglobal.net

Date Received:

Requested TAT:

10/28/2011 Date Printed: 10/28/2011

Requested Tests (See legend below) 10 11 9 12

Test Legend:

1	8081_W	
6		
11		

2	SC_W
7	
12	

3	TDS_W
8	

4	
9	

5	
10	

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name:	Environmenta	I Technical Services			Date	and Time Received:	10/28/2011	5:55:17 PM
Project Name:	SW-7				Check	klist completed and re	eviewed by:	Melissa Valles
WorkOrder N°:	1110897	Matrix: Water			Carrie	er: Client Drop-In		
		Ch	ain of Cu	ustody (C	OC) Informa	ation		
Chain of custody	y present?		Yes	•	No 🗌			
Chain of custody	y signed when re	elinquished and received?	Yes	•	No 🗌			
Chain of custody	y agrees with sa	mple labels?	Yes	1	No 🗌			
Sample IDs note	ed by Client on (COC?	Yes	~	No 🗆			
Date and Time of	of collection note	ed by Client on COC?	Yes	~	No 🗆			
Sampler's name	noted on COC	,	Yes		No 🗸			
			Sample	Receipt	Information	C		
Custody seals in	ntact on shipping	container/cooler?	Yes		No 🗌		NA 🗸	
Shipping contain	ner/cooler in goo	d condition?	Yes	~	No 🗌			
Samples in prop	er containers/bo	ottles?	Yes	~	No 🗆			
Sample containe	ers intact?		Yes	•	No 🗌			
Sufficient sample	e volume for ind	icated test?	Yes		No 🗌			
		Sample Pre	eservatio	n and Ho	old Time (HT)	Information		
All samples rece	eived within hold	ing time?	Yes	•	No 🗆			
Container/Temp	Blank temperat	ture	Coole	er Temp:	3.4°C		NA 🗆	
Water - VOA via	als have zero he	adspace / no bubbles?	Yes		No 🗌	No VOA vials subm	itted 🗸	
Sample labels c	hecked for corre	ect preservation?	Yes	•	No 🗌			
Metal - pH acce	ptable upon rece	eipt (pH<2)?	Yes		No 🗆		NA 🗸	
Samples Receiv	ed on Ice?		Yes	~	No 🗌			
		(Ice T	ype: WE	TICE)			
* NOTE: If the "I	No" box is checi	ked, see comments below.						
		707070=				resere		
Client contacted	li .	Date conta	icted:			Contacted	by:	
Comments:								

Environmental Technical Services	Client Project ID: SW-7	Date Sampled:	10/27/11
1548 Jacob Avenue		Date Received:	10/28/11
1348 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted:	10/28/11
San Jose, CA 95118	Client P.O.: #TL22318	Date Analyzed:	11/01/11

Extraction Method: SW3510C		GC-ECD (8080 Basic Target hod: SW8081A	Work Order: 11	10897	
Lab ID	1110897-001A		Describes	1:	
Client ID	SW-7 Battle		Reporting DF		
Matrix	W		S	w	
DF	1		3	W	
Compound		Concentration	μg/kg	μg/L	
Aldrin	ND		NA	0.005	
a-BHC	ND		NA	0,01	
b-BHC	ND		NA	0.005	
d-BHC	ND		NA	0.005	
g-BHC	ND		NA	0.02	
Chlordane (Technical)	ND		NA	0.1	
a-Chlordane	ND		NA	0.05	
g-Chlordane	ND		NA	0.05	
p.p-DDD	ND		NA	0.01	
p,p-DDE	ND		NA	0.01	
p,p-DDT	ND		NA	0.01	
Dieldrin	0.044		NA	0.01	
Endosulfan I	ND		NA	0.02	
Endosulfan II	ND		NA	0.02	
Endosulfan sulfate	0.068		NA	0.05	
Endrin	ND		NA	0.01	
Endrin aldehyde	ND		NA	0.05	
Endrin ketone	ND		NA	0.05	
Heptachlor	ND		NA	0.01	
Heptachlor epoxide	ND		NA	0.01	
Hexachlorobenzene	ND		NA	0.5	
Hexachlorocyclopentadiene	ND		NA NA	1.0	
Methoxychlor	ND		NA	0.1	
Toxaphene	ND		NA	0.5	
		e Recoveries (%)			
%SS:	102				
Comments					

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak.

Environmental Technical Serv	ices Client Proje	et ID: SW-7		Date Sampled:	Date Sampled: 10/27/11							
1548 Jacob Avenue				Date Received:	10/28/11							
1346 Jacob Avenue	Client Conta	act: Helen Maw	hinney	Date Extracted:	11/03/11							
San Jose, CA 95118	Client P.O.:	#TL22318		Date Analyzed:	11/03/11							
	Spec	ific Conductivit	y*	-								
Analytical Method: SM2510B		,		Work Order:								
Lab ID	Client ID	Matrix	Speci	fic Conductivity	DF	Comments						
1110897-001A	SW-7 Battle	w	11:	300 @ 25.0°C	1							
1110897-003A	SW-7 Inflow	w	40.	200 @ 25.0°C	1							
					-							
		+			+							
					+							
		+ +			+							
Reporting Limit for DF = 1; ND mea	ns not detected at or above the		10 μπ	nhos/cm @ 25°C								
reporting	limit	S		NA								

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc
"When Quality Counts"

	n Quality Counts"		пир.// и и и лиссе	impocateon) E-min. minute	nail: main@mccampbell.com						
Environmental Technical Ser-	vices Client Project	ID: SW-7	Date Sampled:	ampled: 10/27/11							
1548 Jacob Avenue				Date Received:	10/28/11						
	Client Contact	: Helen Maw	ninney	Date Extracted:	10/31/11						
San Jose, CA 95118	Client P.O.: #	ΓL22318		Date Analyzed:	11/01/11						
	Total D	issolved Solid	s*			11111111					
Analytical Method: SM2540C Lab ID	Client ID	Matrix	Total D	Dissolved Solids	Work Order:	Comments					
1110897-001A	SW-7 Battle	w		6710	10						
1110897-003A	SW-7 Inflow	w		29,700	10						
					1	1					
					1						
					1						
					+						
					+						
					-						
					+						
					+						
					-						
					-	-					
Reporting Limit for DF = 1; ND mo		w		10 mg/L							
reporting	g limit	S		NA							

Angela Rydelius, Lab Manager

QC SUMMARY REPORT FOR SW8081A

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 62264

WorkOrder: 1110897

EPA Method: SW8081A	Extra	ction: SW	3510C			Spiked Sample ID: N/A									
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)						
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD			
Aldrin	N/A	0.50	N/A	N/A	N/A	114	115	0.332	N/A	N/A	70 - 130	30			
g-BHC	N/A	0.50	N/A	N/A	N/A	96.8	95.6	1.20	N/A	N/A	70 - 130	30			
p,p-DDT	N/A	1.25	N/A	N/A	N/A	82.3	81.6	0.842	N/A	N/A	70 - 130	30			
Dieldrin	N/A	1.25	N/A	N/A	N/A	116	116	0	N/A	N/A	70 - 130	30			
Endrin	N/A	1.25	N/A	N/A	N/A	114	113	0.451	N/A	N/A	70 - 130	30			
Heptachlor	N/A	0.50	N/A	N/A	N/A	102	102	0	N/A	N/A	70 - 130	30			
%SS:	N/A	1.25	N/A	N/A	N/A	121	122	0.620	N/A	N/A	70 - 130	30			

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 62264 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1110897-001A	10/27/11 1:21 PM	10/28/11	11/01/11 12:14 PM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2510B (Specific Conductivity) Matrix: W

WorkOrder: 1110897

Method Name:	SM2510B		Units: µmhos/c		BatchID: 62218	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1110897-001A	11300 @ 25.0°C	1	11300 @ 25.0°C	1	0.0883	<2
1110897-003A	40200 @ 25.0°C	1	40500 @ 25.0°C	1	0.868	<2

BATCH 62218 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1110897-001A	10/27/11 1:21 PM	M 11/03/11	11/03/11 3:20 PM	1110897-003A	10/27/11 1:21 PM	1 11/03/11	11/03/11 3:30 PM

Test Method: SM2540C (TDS) Matrix: W WorkOrder: 1110897

Method Name: SN	M2540C		Units: mg/L			BatchID: 62188					
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)					
1110897-001A	6710	10	6940	10	3.37	<20					
1110897-003A	29,700	10	29,400	10	0.915	<20					

BATCH 62188 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1110897-001A	10/27/11 1:21 P	M 10/31/11	11/01/11 3:10 PM	1110897-003A	10/27/11 1:21 PM	A 10/31/11	11/01/11 3:20 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

Analytical Report

Environmental Technical Services	Client Project ID: SW-7	Date Sampled: 10/27/11
1548 Jacob Avenue		Date Received: 10/28/11
1346 sacoo Avenue	Client Contact: Helen Mawhinney	Date Reported: 11/10/11
San Jose, CA 95118	Client P.O.: #TL22318	Date Completed: 11/10/11

WorkOrder: 1110897 A

November 10, 2011

Dear Helen:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: SW-7,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

We Tel	lcCAMP bsite: www.m lephone: (87	PITTSBURG, eccampbell.com 7) 252-9262	W PASS CA 945 m Ema	8 RO 65-1' il: n	AD 701 nain@ Fax	mee : (92	amp	/L) &	1	7							OU	ED	F	IN	PI Ch	F	RU!	SH E	24 xcel	HR	15	18 H	IR ite id ".	J" fla	HR 5 DAY DW)
Report To: HELI					SA			_		_	_	_	_		-			7	1	Ana	lysi	s Re	que	st		-				0	ther	Comments
· SAN.	JACOB AVE JOSE, CA 95	ENUE	F	о <i>г</i> Е-М	¥ 7	7					iol.co	m			l d						onseners									ysis		**Indicate here if these samples are
Tele: (831) 236-	9221		Fa	_)	_	_		_		_	_	1	SON			-	0		100						6020	(020)		metals analysis		potentially
Project #:	AGO TEMPEON	W/90 A W 790 N 1 W 7 W			t Na			00	_			_	_	1	M, I			00	802		Sclos		ides			(As)	10/	9/01		stats		dangerous to
Project Location:		TI AVENUI	E, RIC	HM		_		804	1			_		1	N			(H)	209	cides	1 Y		rrbic	-	8	8	/60	(09/				naudie.
Sampler Signatur	e:	_		-	PO#	$\overline{}$		_	_	-	NEE-	FILE	an	1	NO.			021	PA	esti	12	E	H	00	VOX	AHS	800	8.00		VE		
	4.1	SAMPL	ING		Z.		MA	TR	IX	1	ME'				& ALUMINUM, IRON			8/010	LY (E	(C)	B's Or	CLIN	eidic (260 (V	270 (S	10 (P.	0.7/2	0.772		IOSSI		
SAMPLE ID	LOCATION/ Field Point Name	Date	Ti me	# Containers	Type Containers	Water	Soil	Air	Sludge	Cullet	ICE	HNO,	Other	8260 FULL LIST	CAM 17 METALS	TPHD 8015	TPH-MO 8015	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY: Araclars	SPECIFIC CONDUCTIVITY	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200,7 / 200,8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	HA	Filter sample for DISSOLVED	SOL	
560-7 Baffe.		10-27-11	B:4	1		Х				T	X							Н		X	-	X									X	
5607 Oranno	HELD	10-27-11	13.2						1	T								7	Ja	1	Wo	X									X	HOID
SW7 Change SW7 Info	9	10:27-11	137	ľ				1		1		I	I					Ε,	1	8	1	X									X	110
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										1																						
**MAI clients MUST gloved, open air, samp allowing us to work sa	de handling by	ngerous chemic MAI staff. Non-	als knov -disclosi	vn to ire in	be procurs a	esent in im	in th	eir :	submi \$250 s	itte	ed sam	ples e an	s in c	once e clie	entral	subj	that ect to	may o full	cau l legi	se im	oillit	for l	arn	suff	ered	The	anky	ou fe	r end	lange ur u	erment udersta	as a result of brief, nding and for
Relinquished By:	CILLY	29-11 13	25	ET	ived E	11	ic	25	e					HI	E/t°_ DOD EAD ECH	SPA LOR	NDIT CE A INA	TED	INI	LAB		1						COM	4ME	NTS	it.	
Relinguished By	lella	Date: Tin	me: 30	Rece	ived E	1/4	10	ı	a	-	2	-	6	PF	RESE	RVI	D IN	V LA	В_	O		MI	ETA	LS	ОТ	HER						

McCampbell Analytical, Inc.

1534 Willow Pass Rd

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsbur (925) 25	g, CA 94565-1701 52-9262				V	VorkO	rder:	111089	7 A	(ClientC	ode: E	ETS				
		WaterTrax	Write	On EDF	تان ا	Excel	ı	∏Fax	E	a Email		Hard	Сору	Thir	dParty	□J-f	ilag
Report to:							Bill to:						Requ	ested T	AT:	!	5 days
Helen Mawhinney Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118 S10-385-4308 FAX: 510-522-6259 Email: HMawhinneyETS@aol.com; cc: PO: #TL22318 ProjectNo: SW-7					nes.jim	enez	En 154 Sa	vironme 48 Jacc n Jose,	whinney ental Te ob Aven CA 951 enez@s	chnical ue 18		es	Date	Receiv Add-O Printe	On:	11/09	8/2011 9/2011 9/2011
					1				Re	quested	Tests (See leg	end belo	ow)			- 38
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1110897-003	SW-7 Inflow		Water	10/27/2011 13:21		Α										3	
Test Legend: 1 808 6 11	31_W 2 7 12			3 8				4 9	330					5			
													Prenar	ed bv	Melis	sa Vall	es

8081 added on 003 11/9/11 24hr. **Comments:**

> NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

~ .		
Environmental Technical Services	Client Project ID: SW-7	Date Sampled: 10/27/11
1548 Jacob Avenue		Date Received: 10/28/11
1346 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 11/09/11
San Jose, CA 95118	Client P.O.: #TL22318	Date Analyzed: 11/10/11

Organochlorine Pesticides by GC-ECD (8080 Basic Target List)*

Extraction Method: SW3510C	Analytical	Method: SW8081A	Work Order: 11	110897
Lab ID	1110897-003A		Reporting	Limit for
Client ID	SW-7 Inflow		DF	
Matrix	W		S	w
DF	1	4,14	3	, w
Compound		Concentration	μg/kg	μg/L
Aldrin	ND	= 1	NA	0.005
a-BHC	ND		NA	0.01
b-BHC	ND		NA	0.005
d-BHC	ND		NA	0.005
g-BHC	ND		NA	0.02
Chlordane (Technical)	ND		NA	0.1
a-Chlordane	ND		NA	0.05
g-Chlordane	ND		NA	0.05
p,p-DDD	ND		NA	0.01
p,p-DDE	ND		NA	0.01
p,p-DDT	0.085		NA	0.01
Dieldrin	0.15	()	NA	0.01
Endosulfan I	ND		NA	0.02
Endosulfan II	ND		NA NA	0.02
Endosulfan sulfate	ND		NA	0.05
Endrin	0.093		NA	0.01
Endrin aldehyde	ND		NA	0.05
Endrin ketone	ND		NA	0.05
Heptachlor	ND		NA	0.01
Heptachlor epoxide	ND		NA	0.01
Hexachlorobenzene	ND		NA	0.5
Hexachlorocyclopentadiene	ND		NA	1.0
Methoxychlor	ND		NA	0.1
Гохарһепе	ND		NA	0.5
		gate Recoveries (%)		
%SS:	99			
Comments				

^{*} water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

[#] surrogate diluted out of range or surrogate coelutes with another peak.

QC SUMMARY REPORT FOR SW8081A

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 62623 WorkOrder: 1110897

EPA Method: SW8081A	Method: SW8081A Extraction: SW3510C					Spiked Sample ID: N/A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	otance Criteria (%)	
7 mary to	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aldrin	N/A	0.50	N/A	N/A	N/A	116	112	3.31	N/A	N/A	70 - 130	30
g-BHC	N/A	0.50	N/A	N/A	N/A	110	112	2.01	N/A	N/A	70 - 130	30
p,p-DDT	N/A	1.25	N/A	N/A	N/A	99.1	99.3	0.199	N/A	N/A	70 - 130	30
Dieldrin	N/A	1.25	N/A	N/A	N/A	118	119	1.01	N/A	N/A	70 - 130	30
Endrin	N/A	1.25	N/A	N/A	N/A	122	123	0.760	N/A	N/A	70 - 130	30
Heptachlor	N/A	0.50	N/A	N/A	N/A	125	130	3.55	N/A	N/A	70 - 130	30
%SS:	N/A	1.25	N/A	N/A	N/A	95	96	0.362	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 62623 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1110897-003A	10/27/11 1:21 PM	1 1/09/11	11/10/11 2:58 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

Other Sampling Events

January 25, 2012

Analytical Report

Environmental Technical Services	Client Project ID: Discharge 1-25-12; Levin Rich	Date Sampled: 01/25/12
1548 Jacob Avenue	Terminal "Municiple	Date Received: 01/26/12
1346 Jacob Avenue	Client Contact: Helen Mawhinney	Date Reported: 02/02/12
San Jose, CA 95118	Client P.O.: #TL22438	Date Completed: 02/02/12

WorkOrder: 1201696

February 02, 2012

Dear Helen:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: Discharge 1-25-12; Levin Rich Terminal "Municipl
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701

TURN AROUND TIME

RUSH 24 HR

CHAIN OF CUSTODY RECORD 72 HR

Website: www.mccampbell.com Email: main@mccampbell.com Telephone: (877) 252-9262

Fax: (925) 252-9269

GeoTracker EDF □ PDF □ Excel □ Write On (DW) □

48 HR

Check if sample is effluent and "J" flag is required LEVIN RICH TERMINAL "MUNICIPLE DISCHARGE" Report To: Helen Mawhinney Bill To: ETS **Analysis Request** Other Comments Company: ENVIRONMENTAL TECHNICAL SERVICES (ETS) **Indicate 1548 JACOB AVENUE, SAN JOSE, CA 95118 here if these PO No TL 22438 E-Mail: hmawhinnevets@aol.com samples are Tele: (831) 236-9221 Fax: (831)883-8490 potentially Project #: DISCHARGE 1-25-12 Project Name: LRT DISCHARGE 031711 dangerous to handle: Project Locate: Levin Richmond Terminal (LRT) 402 Wright Ave, Richmond 94804 Z Sampler Signature: ppm Note: TTLC Zn <1.0 µµm METHOD SAMPLING MATRIX pB PRESERVED RI. H SM18 4500 H+B Type Containers 120.1 TTLC CL, ZN, NI, TEPH DIESEL Containers Note: TTLC CU SAMPLE ID BTEN 602 624 Date Time Sludge Water HNO3 Other ICE SW-I through SW7 1/25/12 12:01 FIELD XX COMP SW-1 1/25/12 12:01 X Lab Comp SW-2 1/25/12 1:20 X Lab Comp SW-3 1/25/12 1:40 X Lab Comp SW-4 1/25/12 X Lab Comp 1:49 SW-5 1/25/12 1:55 X Lab Comp SW-6 1/25/12 2:04 X Lab Comp SW-7 1/25/12 X 2:14 SW-1 1/25/12 H X H=HOLD

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Sampled and Relinquished By: Helen Mawhinney (HM)	Date: 1-25- 12	Time: 3:16	Received By: LRT Locked Container Fridge (HM)
Relinquished By: (TL)	Date: 1-26- 12	Time: 6700	Received By: (TL) (Tony Lester)
Relinquished By: (TL)	Date:	Time:	Received By:

H

1/25/12

ICE/1º 10 d c GOOD CONDITION HEAD SPACE ABSENT **DECIILORINATED IN LAB** APPROPRIATE CONTAINERS \ PRESERVED IN LAB

one sample for analyses Please hold SW-1 & SW-2 Extra Metals containers Note COC is for one sample for analyses

COMMENTS:

Composite SW-I through SW-7 all containers & VOAs in lab as

If Spec Cond is >200 analyze for N-Ions & CAT-ions

VOAS / O&G / METALS OTHER Please use EPA Methods per 40 CFR 136 PRESERVATION as required by RWQCB pH<2 H-Hold If Spec Cond > 200 analyze for CAT & N lons X=analyze as one sample

X

Dana 2 of 16

H=HOLD

SW-2

McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

WorkOrder: 1201696

ClientCode: ETS

☐ WaterTrax WriteOn EDF HardCopy Excel Fax

Email:

Bill to:

✓ Email

ThirdParty

Requested TAT:

Date Received:

Date Printed:

J-flag

Report to:

Helen Mawhinney

1548 Jacob Avenue

510-385-4308

San Jose, CA 95118

Environmental Technical Services

FAX: 510-522-6259

HMawhinneyETS@aol.com; james.jimenez

CC:

#TL22438

PO:

ProjectNo: Discharge 1-25-12; Levin Rich Terminal

"Municiple Discharge"

Helen Mawhinney

Environmental Technical Services

1548 Jacob Avenue San Jose, CA 95118

james.jimenez@sbcglobal.net

01/26/2012

01/26/2012

5 days

								R	equeste	d Tests	(See leg	end bel	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1201696-001	SW-1 through SW7	Water	1/25/2012 12:01	IDI	В	Α	E	F	D	D	С				-	

Test Legend:

1	1664A_W
6	SC-120_1_W
11	

2	602_W
7	TSS_W
2	

3	BOD_W
8	

4	METALSMS_W
9	

5	PH_W
10	

Prepared by: Melissa Valles

Comments:

Sample Receipt Checklist

Client Name: Environmental Technical Services						Date and Time Received: 1/26/2012 11:29:07 AM				
Project Name:	Discharge 1-2	5-12; Levin Rich Terminal	'Municip	ole Discha	arg C	hecklis	st completed and re	eviewed by:	Melissa Valles	
WorkOrder N°:	1201696	Matrix: Water			C	Carrier:	Client Drop-In			
		Ch	ain of C	ıstody (C	OC) Info	ormatio	מי			
Chain of custody	y present?		Yes	~	No					
Chain of custody	y signed when rel	inquished and received?	Yes	~	No					
Chain of custody	y agrees with san	nple labels?	Yes		No					
Sample IDs note	ed by Client on Co	oc?	Yes	✓	No					
Date and Time of	of collection noted	by Client on COC?	Yes	~	No					
Sampler's name	noted on COC?		Yes		No	1				
			Sample	Receipt	Informa	tion				
Custody seals in	Custody seals intact on shipping container/cooler?				No			NA 🗸		
Shipping contain	ner/cooler in good	condition?	Yes	~	No					
Samples in prop	er containers/bot	tles?	Yes	~	No					
Sample containe	ers intact?		Yes	•	No					
Sufficient sample	e volume for indic	cated test?	Yes		No					
		Sample Pre	servatio	n and Ho	ld Time	(HT).lo	formation			
All samples rece	eived within holdir	ng time?	Yes	•	No					
Container/Temp	Blank temperatu	re	Coole	er Temp:	10.2°C			NA 🗆		
Water - VOA via	als have zero hea	dspace / no bubbles?	Yes		No		lo VOA vials subm	itted 🗌		
Sample labels c	hecked for correc	et preservation?	Yes		No					
Metal - pH accep	ptable upon recei	pt (pH<2)?	Yes	V	No			NA \square		
Samples Receiv	ed on Ice?		Yes	•	No					
		(Ice Ty	pe: WE	TICE)	1					
* NOTE: If the "I	No" box is checke	ed, see comments below.								

Comments:

Environmental Technical Services	Client Project ID: Discharge 1-25-12;	Date Sampled: 01/25/12
1548 Jacob Avenue	Levin Rich Terminal "Municiple	Date Received: 01/26/12
15 to succe Trende	Client Contact: Helen Mawhinney	Date Extracted 01/30/12
San Jose, CA 95118	Client P.O.: #TL22438	Date Analyzed 01/31/12

Hexane Extractable Material without Silica Gel Clean Up*

Extraction method: E1664A Analytical methods: E1664A Work Order: 1201696

xtraction method: E10	004A	Anaiyucai me	Inods: E1004A		Work Order	1201696
Lab ID	Client ID	Matrix	HEM	DF	% SS	Comments
1201696-001B	SW-1 through SW7	w	ND	1	N/A	
		-		-		
-						

Reporting Limit for DF =1; ND means not detected at or	w	5.0	mg/L
above the reporting limit	S	NA	NA

^{*} water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

%SS = Percent Recovery of Surrogate Standard

surrogate diluted out of range

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644

Environmental Technical Services		nt Project ID: Discharge 1-25-12;	Date Sampled: 01/25/12 Date Received: 01/26/12 Date Extracted: 01/28/12			
1548 Jacob Avenue	Lev	in Rich Terminal "Municiple				
1346 Jacob Avenue	Clie	nt Contact: Helen Mawhinney				
San Jose, CA 95118	Clie	Client P.O.: #TL22438 Date Analyzed: 01/28/12				
Arc Extraction Method: E602	omatic VOC	Cs by P&T and GC-PID (602 Targe Analytical Method: E602	et List)*	Work Order:	1201696	
Lab ID	1201696-00	DIA				
Client ID	SW-1 through S	SW7			Limit for =1	
Matrix	W					
DF	1			S	W	
Compound		Concentration		ug/kg	μg/L	
Benzene	ND			NA	0.5	
Toluene	ND			NA	0.5	
Ethylbenzene	ND			NA	0.5	
Xylenes, Total	ND			NA	0.5	
	S	Surrogate Recoveries (%)				
%SS:	107					

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

Environmental T	echnical Services	Client Project	ID: Dischar	ge 1-25-12;	Date Sampled:	01/25/12	1
1548 Jacob Aver	nie	Levin Rich Ter	munai Mum	cipie	Date Received:	01/26/12	
1340 34000 71401	ide	Client Contact	: Helen Maw	hinney	Date Extracted: 01/26/12-01/31/12 Date Analyzed: 01/31/12		
San Jose, CA 95	118	Client P.O.: #7	TL22438				
Analytical Method: SM	452100	Biochemical Ox	xygen Demai	nd (BOD)*	-	Weds Orders	1201505
Lab ID	Client ID		Matrix		BOD	Work Order:	Comments
1201696-001E	SW-1 through S	W7	w		ND	1	
12010/0 0012	5 W.Y. anough 5					+ .	
-							-
						-	-
			-			-	
						+	
							-
						-	
Poporting Limit for	DE = 1. ND mann and date.	ad at or above the	w	4	.0 mg/L		
Reporting Limit for DF = 1; ND means not detected at or above the reporting limit		ed at or above the	S		NA NA	-	
* water samples are re	ported in mg/L.					,	

Environmental Technical Services	Client Project ID: Discharge 1-25-12; Levin Rich Terminal "Municiple	Date Sampled: 01/25/12
1548 Jacob Avenue	Levin Rich Terminal Municipie	Date Received: 01/26/12
10.10.00001170000	Client Contact: Helen Mawhinney	Date Extracted: 01/26/12
San Jose, CA 95118	Client P.O.: #TL22438	Date Analyzed: 01/27/12

Extraction n	nethod: E200.8		A	Metals* nalytical methods:	E200.8			Work (Order: 12	01696
Lab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Nickel	Zinc	DF	% SS	Comments
001F	SW-1 through SW7	w	TOTAL	17	19	4.9	170	1	106	
- 1						-				
								1		

Reporting Limit for DF =1; ND means not detected at or	w	TOTAL	0.5	0.5	0.5	5.0	μg/L
above the reporting limit	S	TOTAL	NA	NA	NA	NA	NA

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Environmental Tech	nical Services	Client Proje	Client Project ID: Discharge 1-25-12; Levin Rich Terminal "Municiple			Date Sampled: 01/25/12		
1548 Jacob Avenue		Devin ruen	10111111111111111111111111111111111111	pic	Date Received:	01/26/12		
N. W. DANGER		Client Cont	act: Helen Maw	hinney	Date Extracted: 01/26/12			
San Jose, CA 95118		Client P.O.	#TL22438		Date Analyzed:	01/26/12		
Analytical Method: SM450	0H+B		pH*			Work Order:	1201696	
Lab ID	Client II)	Matrix		pН	DF	Comments	
1201696-001D	SW-1 through	SW7	W 7.59		@ 23.4°C	1		
							-	
Method A	ccuracy and Reporting	Units	w	±0.05, I	oH units @ °C			
			S		NA			
* According the formal me analysis, MAI has designat DF = Dilution Factor	thod, this is "field test" ed a 24 hour hold time	with a 15 minute I for aqueous sample	Iold Time. However,	as this is unrea	13121	l nercial envir	ronmental	

Environmental Technical S		roject ID: Discharg	Date Sampled: 01/25/12			
1548 Jacob Avenue	Levin R	ich Terminal "Muni	ciple	Date Received:	01/26/12	
1348 Jacob Avenue	Client C	ontact: Helen Maw	hinney	Date Extracted: 01/26/12		
San Jose, CA 95118	Client P	.O.: #TL22438		Date Analyzed:	01/26/12	
	S	pecific Conductivit	y*	'		
Analytical Method: E120.1					Work Order:	1201696
Lab ID	Client ID	Matrix		Conductivity	DF	Comments
1201696-001D	SW-1 through SW7	w	W 614		1	
					1	
						-
					+	
E 22.01 L. 2.4 L. 2.4	100 000 A A ST A SECTION OF THE	e the W	10 umb	os/cm @ 25°C	1	
Reporting Limit for DF = 1; ND means not detected at or above the reporting limit		s the	то динь	NA	-	

Environmental Technical Services Client		lient Project ID: Discharge 1-25-12;		Date Sampled: 01/25/12		
1548 Jacob Avenue	Levin Rich Te	rminal "Muni	ciple	Date Received: (01/26/12	
1346 Jacob Avenue	Client Contact	: Helen Maw	hinney	Date Extracted: ()1/26/12	
San Jose, CA 95118	Client P.O.: #	ΓL22438		Date Analyzed: (01/26/12	
Analytical Method: SM2540D	Total Su	spended Soli	ds*		Work Order:	1201696
Lab ID	Client ID	Matrix	Total Su	spended Solids	DF	Comments
1201696-001C SW	-1 through SW7	w		43.0	5	
Reporting Limit for DF = 1; ND mea	ns not detected at or above the	W	1	0 mg/L		
reporting limit		S		NA		
water samples reported in mg/L. OF = Dilution Factor						

QC SUMMARY REPORT FOR E1664A

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64268 WorkOrder: 1201696

EPA Method: E1664A Extraction: E1664A Spiked Sample ID: N/A									N/A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance (Criteria (%)
,,,,,,,,	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
HEM	N/A	20.83	N/A	N/A	N/A	96.2	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 64268 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1201696-001B	01/25/12 12:01 PM	01/30/12	01/31/12 4:20 PM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR SM5210B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64459 WorkOrder: 1201696

EPA Method: SM5210B	Extraction: SM5210B				Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
BOD	N/A	198	N/A	N/A	N/A	99	N/A	N/A	80 - 120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 64459 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201696-001E	01/25/12 12:01 PM	01/26/12	01/31/12 6:00 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QC SUMMARY REPORT FOR EPA 602

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 64315 WorkOrder: 1201696

EPA Method: E602 Extraction: E602 Spiked Sample ID: 1201654-0020									
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acce	eptance	Criteria (%)
rutaryto	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
МТВЕ	ND	10	104	92.3	11.6	104	70 - 130	20	70 - 130
Benzene	ND	10	106	100	5.63	105	70 - 130	20	70 - 130
Toluene	ND	10	105	101	4.38	103	70 - 130	20	70 - 130
Ethylbenzene	ND	10	106	103	3.33	104	70 - 130	20	70 - 130
%SS:	106	10	94	94	0	95	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

BATCH 64315 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201696-001A	01/25/12 12:01 PM	01/28/12	01/28/12 5:55 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID; 64321 WorkOrder: 1201696

EPA Method: E200.8	Extraction: E200.8						Spiked Sam	ple ID:	1201556-006A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acce	eptance	Criteria (%)
, many is	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Copper	24	50	95.4	95.6	0.140	96.1	70 - 130	20	85 - 115
Lead	ND	50	94.3	95.2	0.950	89.3	70 - 130	20	85 - 115
Nickel	0.85	50	95.2	95.6	0.412	94.9	70 - 130	20	85 - 115
Zinc	5.2	500	97.3	97.2	0.0611	97.2	70 - 130	20	85 - 115
%SS:	106	750	107	107	0	98	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 64321 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201696-001F	01/25/12 12:01 PM	01/26/12	01/27/12 11:59 AM				

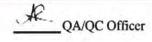
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method:

SM4500H+B (pH)

Matrix: W

WorkOrder: 1201696

Method Name: SM4500H+B			Units: ±, pH un	BatchID: 64307 Precision Acceptance Crit		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	Precision	Acceptance Criteria
1201696-001D	7.59 @ 23.4°C	1	7.60 @ 23.4°C	1	0.01	0.05

BATCH 64307 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201696-001D	01/25/12 12:01 P	M 01/26/12	01/26/12 7:30 PM				

Test Method:

E120.1 (Specific Conductivity)

Matrix: W

WorkOrder: 1201696

Method Name: E	E120.1		Units: µmhos/e	cm @ 25°C		BatchID: 64345
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1201696-001D	614 @ 25.0°C	1	620 @ 25.0°C	1	1.01	<2

BATCH 64345 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201696-001D	01/25/12 12:01 PM	01/26/12	01/26/12 9:00 PM				

Test Method:

SM2540D (TSS)

Matrix: W

WorkOrder: 1201696

Method Name: SN	M2540D		Units: mg/L			BatchID: 64441
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1201696-001C	43.0	5	43.0	5	0	<15

BATCH 64441 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201696-001C	01/25/12 12:01 PM	M 01/26/12	01/26/12 6:45 PM	Q =			

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

Other Sampling Events

March 14, 2012

Analytical Report

Environmental Technical Services	Client Project ID: LRT SW-7 March 2012	Date Sampled: 03/14/12
1548 Jacob Avenue		Date Received: 03/15/12
1346 Jacob Avenue	Client Contact: Helen Mawhinney	Date Reported: 03/23/12
San Jose, CA 95118	Client P.O.:	Date Completed: 03/23/12

WorkOrder: 1203530

March 23, 2012

Dear Helen:

Enclosed within are:

- The results of the 1 analyzed sample from your project: LRT SW-7 March 2012,
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

-										_			_						No.													_	A LEWIS
_ W	McCAMP	BELL	ANAI	LYT	IC	AL.	, II	NC		7													C		TI			R			RD		Routing
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	aepnone: (87	1) 252-92	02		Pax	: (92	3) 2	34-9	209					0	CU	IIa	CRC		DI														required
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Project to 10T	36-922	HODA	420/20	ax: (e Nias)	_			_		_	\dashv	1(51)	report separately	\$520			=		J/S	0	-	10			6020	3		sisylesis i			potentially dangerous to
Project Location	· IOT IN	THECH	- ha	Tojec	L INAI	Jest		500	no	18	9	_	\dashv	+	нраг	199	#	000	7 803	6	roclo	~	cldes			NAS.	010/	3		etab			handle:
Project #: CRT Project Location Sampler Signatu	re: The	wine	15/16/11	1111	1 1	CH V	W	101	4	41				8021	Dort I	1) 36	Jan D	5	28	icide	Y: A	(sa)	le tr	11/2	3	N/B	8/6	3/	070	ЕD п		1	
	1		LING	1				TRI		N.	TETT			(602 / 8021	1	Cire	SETTE	802	Ta	70	ONE	P. C.	5	100	SVO	PAH	700	200	10/6	OLV			
		SPAIVAL	LING	-	2	H	VIA	1101	1	PR	ESE	RVI	ED	San C	TPIlmo	11 6	of the	010	1	2) 11	E P	E B	cidie	097	3270	310	200.7	00.7	3 / 60	SSIC	1	110	
SAMPLE ID	LOCATION			Containers	Containers	П								H BS		Total Petroleum Oil & Greace (1664 / 5520 F/B&P.)	Forth-Perforcin Hydrocar Bone (418-1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MIRE / BIEX ONLY (EPA 692 - 802)	EPA 505/605 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Anoclors / Congenera	PPA 509 - BLAL (NP Benieldes)	EPA 515 / 8151 (Acidie Cl Herhieldes	EPA 524.2 / 624 / 8260440Es) 7	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	MUSE Netals (200.7 / 200.8 / 4010 / 4020)	Lend (200.7 / 200.8 / 6010 / 6020)	sample for DISSOLVED metabs		1	
	Field Point Name	Date	Time	tair	Com	1.				П				BTEX & TPH	TPH as Diesel	trole	rote	17/6	B	209 /	7 80	7	00	1.276	3.276	70 SI	Met	Men	11	mple	N	2	
	1,1,2,2,1	Date	- IIII	l o	Type (Water	=	Air	Other	ICE	HCL	HNO,	Other	EX &	E E	- F	ŧ	A 502	BE.	V 508	A 608	150	A 518	A 524	A 529	A 82	M 17		d (2)	E4 58	10	0	
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**MAI clients MUS gloved, open air, sar	T disclose any da	ngerous ch	Non-disch	own to	be pr	resent	in t	heir s	ubmi	tted	sauq	ples	in co	once	ntrai	tions	that	may o full	lega	ie im	medi	for h	armi	OF SE	rions	The	ure h	ealth	end	dang	nders	at as	a result of brie
allowing us to work	safely.		Thom dates				at re-	and t								4 (-				,		3.	-			
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McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

WorkOrder: 1203530 Excel WaterTrax WriteOn EDF Fax

ClientCode: ETS

V Email HardCopy ThirdParty J-flag

Report to:

Helen Mawhinney

Environmental Technical Services

1548 Jacob Avenue San Jose, CA 95118

510-385-4308

FAX: 510-522-6259

Bill to:

Requested TAT:

5 days

Email: HMawhinneyETS@aol.com; james.jimenez

CC: PO:

ProjectNo: LRT SW-7 March 2012

Helen Mawhinney

Environmental Technical Services

1548 Jacob Avenue San Jose, CA 95118 Date Received:

03/15/2012

Date Printed: 03/15/2012

								Re	questec	Tests (See leg	end bel	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1203530-001	SW-7	Water	3/14/2012 1:36		A	D	G	E	F	G	В	С	T T	Н		

Test Legend:

1	5520B_W
6	METALSMS_W
11	

2	608_W
7	sc_w
12	

3	ALKIMET_W
8	TOC W

4	COD_W
9	TPH_W

5	GAS8260_W
10	TSS W

The following SampID: 001F contains testgroup.

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

Comments:

Conainer for 8270 was not received.

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com/E-mail: main@mccampbell.com

Sample Receipt Checklist

Cheff Name.	with an extended time	recinical Services				ind Time Received. 3/13/2	012 5.28.03 FM
Project Name:	LRT SW-7 Ma	rch 2012			Check	list completed and reviewed	by: Zoraida Cortez
WorkOrder N°:	1203530	Matrix: Water			Carrie	Rob Pringle (MAI Cou	rier)
		Cha	ain of Cu	ustody (C	OC) Informati	tion	
Chain of custody	present?		Yes	•	No 🗌		
Chain of custody	signed when re	linquished and received?	Yes	•	No 🗆		
Chain of custody	agrees with sar	mple labels?	Yes	•	No 🗆		
Sample IDs note	d by Client on C	OC?	Yes	V	No 🗌		
Date and Time o	f collection note	d by Client on COC?	Yes	•	No 🗌		
Sampler's name	noted on COC?		Yes	~	No 🗀		
			Sample	Receipt	Information		
Custody seals in	tact on shipping	container/cooler?	Yes		No 🗆	NA 🗹	
Shipping contain	er/cooler in good	d condition?	Yes		No 🗌		
Samples in prope	er containers/bo	ttles?	Yes	•	No 🗆		
Sample containe	rs intact?		Yes	~	No 🗌		
Sufficient sample	volume for indi	cated test?	Yes		No 🗹		
		Sample Pre	servatio	n and Ho	old Time (HT)	Information	
All samples recei	ived within holdi	ng time?	Yes	~	No 🗆		
Container/Temp	Blank temperatu	ire	Coole	er Temp:	5.6°C	NA 🗀	
Nater - VOA vial	s have zero hea	dspace / no bubbles?	Yes	•	No 🗌	No VOA vials submitted	
Sample labels ch	ecked for correc	ct preservation?	Yes	~	No 🗌		
Metal - pH accep	table upon recei	ipt (pH<2)?	Yes	•	No 🗌	NA 🗆	
Samples Receive	ed on Ice?		Yes	9	No 🗌		
		(Ice Ty	pe: WE	TICE)		
* NOTE: If the "N	lo" hov is check	ed, see comments below.					

Page 4 of 25

•	"When Quality	Counts"	http://www.mcca	impoeu.com/E-n	nail: main@	mccampbell.	com
nvironmental Tech	nical Services	Client Project II 2012	D: LRT SW-7 March	Date San	npled:	03/14/12	
1548 Jacob Avenue		2012		Date Rec	eived:	03/15/12	
10,044,000,100,000		Client Contact:	Helen Mawhinney	Date Ext	racted	03/19/12	
n Jose, CA 95118	n Jose, CA 95118 Client P.O.;			Date Ana	alyzed	03/20/12	
nction method: SM5520B.	/F		out Silica Gel Clean-Up methods: SM5520B/F	*		Work Order:	1203530
Lab ID	Client ID	Matrix	TOG		DF	% SS	Comment
03530-001A	SW-7	w	ND		1	N/A	
			-				
Reporting Li	mit for DF =1:	w	5.0			ma/I	
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		S	NA.		mg/L NA		
700010 1001		imit may change due to va					

DHS ELAP Certification 1644

Environmental Technical Services	Client Project ID: LRT SW-7 March	Date Sampled:	03/14/12
1548 Jacob Avenue	2012	Date Received:	03/15/12
	Client Contact: Helen Mawhinney	Date Extracted:	03/15/12
San Jose, CA 95118	Client P.O.:	Date Analyzed:	03/23/12

Organochlorine Pesticides (608 Basic Target List) and PCBs*

Extraction Method: E608		Method: E608	Work Order: 1:	LV333V
Lab ID	1203530-001D		Reporting Limit to	
Client ID	SW-7			
Matrix	W		s	w
DF	1			307
Compound		Concentration	μg/kg	μg/L
Aldrin	ND		NA	0.005
a-BHC	ND		NA	0.01
b-BHC	ND		NA	0.005
d-BHC	ND		NA	0.005
g-BHC	ND		NA	0.02
Chlordane (Technical)	ND		NA	0.1
a-Chlordane	ND		NA	0.05
g-Chlordane	ND		NA	0.05
p,p-DDD	ND		NA	0.01
p,p-DDE	ND		NA	0.01
p,p-DDT	ND		NA	0.01
Dieldrin	ND		NA	0.01
Endosulfan I	ND		NA	0.02
Endosulfan II	ND		NA	0.01
Endosulfan sulfate	ND		NA	0.05
Endrin	ND		NA	0.01
Endrin aldehyde	ND	N - I	NA	0.01
Endrin ketone	ND		NA	0.05
Heptachlor	ND		NA	0.01
Heptachlor epoxide	ND		NA	0.01
Hexachlorobenzene	ND		NA	0.5
Hexachlorocyclopentadiene	ND		NA	1.0
Methoxychlor	ND		NA	0.1
Toxaphene	ND		NA	0.5
Aroelor1016	ND		NA	0.5
Aroclor1221	ND		NA	0,5
Aroclor1232	ND		NA	0.5
Aroclor1242	ND		NA	0.5
Aroclor1248	ND		NA	0.5
Aroclor1254	ND		NA	0.5
Aroclor1260	ND		NA	0.5
PCBs, total	ND		NA	0.5
	Surrog	gate Recoveries (%)		
%SS:	84			
Comments				

* water samples in μg/L; reporting limit may change due to variable water sample volume.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Environmental Technical Services	Client Project ID: LRT SW-7 March	Date Sampled: 03/14/12	
1548 Jacob Avenue	2012	Date Received: 03/15/12	
1346 Jacob Avenue	Client Contact: Helen Mawhinney	Date Extracted: 03/15/12	
San Jose, CA 95118	Client P.O.:	Date Analyzed: 03/20/12	

Alkali Metals by ICP*

Extraction method: E200.7 Analytical methods: E200.7 Work Order: 1203530 Matrix Extraction Type

lab ID	Client ID	Matrix	Extraction Type	Aluminum	Iron	DF	% SS	Comments
001G	SW-7	w	TOTAL	75	120	1	101	
			+			+		
-							-	
						1		
						+		
						4	-	
Re	eporting Limit for DF =1;	w	TOTAL	50	20		μg/I	
ND means not	eporting Limit for DF =1; detected at or above the reporting limit	S	TOTAL	NA	NA		NA	

*water samples are reported in ug/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container. DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

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Angela Rydelius, Lab Manager

McCar		1534 Wi Toll Free Te http://www.n				
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118		Client Project ID: LRT SW-7 March 2012 Client Contact: Helen Mawhinney				
					Client P.O.:	
		Analytical Method: SM5220D		Chemical Oxyg	en Deman	nd (COD)*
Lab ID	Client I	D	Matrix			
1203530-001E	SW-7		w			

COD

ND

Date Sampled: 03/14/12

Date Received: 03/15/12

Date Extracted: 03/21/12 Date Analyzed: 03/21/12

Work Order: 1203530

Comments

DF

1

Reporting Limit for DF = 1; ND means not detected at or above the	w	10 mg/L	
reporting limit	S	NA	
rater/product/oil/non-aqueous liquid samples and all TCLP / STLC / D il/sludge/solid samples in mg/kg, wipe samples in μg/wipe, filter samp	les in µg/filter.	is are reported in ing L,	

1548 Jacob Avenue	Client C				Date Sampled: 03/14/12		
	Client C		2012		Date Received: 03/15/12		
S I CA 05110	Chem C	ontact: H	lelen Mawhinney	Date Extracted 03/16/12			
San Jose, CA 95118	Client P.	O.:		Date Analyz	ed 03	3/16/12	
Extraction method: SW5030B	TPH(g) by		& Trap and GC/MS* acthods: SW8260B		w	ork Order:	1203530
Lab ID Client ID	M	atrix	TPH(g)		DF	% SS	Comments
001F SW-7		w	ND		1	122	
		_					
		-					
							1
Reporting Limit for DF =1;		w	50			μg/L	/
ND means not detected at or above the reporting limit		S	NA			NA	
water and vapor samples are reported in µg extracts are reported in mg/L, wipe samples ND means not detected above the reporting burrogate Standard; DF = Dilution Factor	in μg/wipe.						

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	ID: LRT SW-7 March	Date Sampled:	03/14/12		
2012		Date Received: 03/15/12			
Client Contact	t: Helen Mawhinney	Date Extracted: 03/16/12			
Client P.O.:		Date Analyzed:	03/16/12		
MTBE and	BTEX by GC/MS*				
Analytical ?	Method: SW8260B		Work Order:	1203530	
1203530-001F					
SW-7					
w					
1			S	W	
Concentration			ug/kg	μg/L	
ND			NA	0.5	
ND			NA	0.5	
ND			NA	0.5	
ND			NA	0.5	
ND			NA	0.5	
Surrogate	Recoveries (%)				
107					
110					
	Client Contact Client P.O.: MTBE and Analytical 1 1203530-001F SW-7 W 1 ND ND ND ND ND ND ND ND ND	Client Contact: Helen Mawhinney Client P.O.: MTBE and BTEX by GC/MS* Analytical Method: SW8260B 1203530-001F SW-7 W 1 Concentration ND ND ND ND ND Surrogate Recoveries (%)	Date Received: Client Contact: Helen Mawhinney Date Extracted: Client P.O.: Date Analyzed:	Date Received: 03/15/12	

Angela Rydelius, Lab Manager

%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor

	McCampbell Analytical, Inc
	"When Quality Counts"

Environmental Technical Services	Client Project ID: LRT SW-7 March 2012	Date Sampled: 03/14/12
1548 Jacob Avenue	2012	Date Received: 03/15/12
1540 Sucoto Avenue	Client Contact: Helen Mawhinney	Date Extracted: 03/15/12
San Jose, CA 95118	Client P.O.:	Date Analyzed: 03/17/12
	440.40	

BA	í	4-1	1-4
IVI	e	Ea.	S*

Extraction method: E200.8 Analytical methods: E200.8									order: 12	
ab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Vanadium	Zine	DF	% SS	Commen
001G	SW-7	w	TOTAL	2.5	1.3	2.1	13	1	106	
4										
Reporti	ng Limit for DF =1;	w	TOTAL	0.5	0.5	0.5	5.0		μg/L	

Reporting Limit for DF =1; ND means not detected at or	w	TOTAL	0.5	0.5	0.5	5.0	μg/L
above the reporting limit	S	TOTAL	NA	NA	NA	NA	NA

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

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	1534 Willow Pass Road Toll Free Telephone: (877) http://www.mccampbell.com			
ID: LRT SW	-7 March	Date Samp		
		Date Rece		
t: Helen Mawl	elen Mawhinney			
Client P.O.:				
ic Conductivity	y*			
Matrix	Specifi	fic Conductivity		
w	35.0	0 @ 25.0°C		
	ic Conductivity			

Date Sampled: 03/14/12 Date Received: 03/15/12

Date Extracted: 03/16/12 Date Analyzed: 03/16/12

Work Order: 1203530

Comments

DF

10 μmhos/cm @ 25°C		
NA		

W

S

DF = Dilution Factor

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit

McCampbell Ar "When Quality	
Environmental Technical Services	Client Project I 2012
1548 Jacob Avenue	Client Contact:
San Jose, CA 95118	Client P.O.:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269

	"When Quality Counts"			http://www.mccampbell.com/E-mail: main@mccampbell.com				
Environmental Tec	hnical Services	Client Project I	D: LRT SV	V-7 March	Date Sampled:	03/14/12		
1548 Jacob Avenue		2012			Date Received:	03/15/12		
1546 Jacob Avenue		Client Contact:	Helen May	vhinney	Date Extracted: 03/21/12			
San Jose, CA 9511	8	Client P.O.:	Date Analyzed			d: 03/21/12		
Total Organic Carbo Analytical Method: E415.3		l Organic Carbo	ı (TOC) rep	orted as NP	OC*	Work Order:	1203530	
Lab ID	ab ID Client ID		Matrix		тос	DF	Comments	
1203530-001C SW-7			w		1.8	1		
							1	
						-		
						+		
						1		
Reporting Limit for DF = 1; ND means not detected at or above the		W	(0.3 mg/L	1			
Reporting Limit for DI	reporting limit		S		NA			

(300)	
	McCampbell Analytical, Inc.
	"When Quality Counts"

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	"When Quality Counts"			http://www.mccampbell.com / E-mail: main@mccampbell.com					
Environmental Te	chnical Services		: LRT SW-7 March	Date Sample	d: 03/14/	12			
1548 Jacob Avenu	ne.	2012	2012			Date Received: 03/15/12			
15 to successivent		Client Contact: I	Helen Mawhinney	Date Extracte	Extracted 03/15/12				
San Jose, CA 951	18	Client P.O.:		Date Analyze	ed 03/21/	12			
Extraction method: SW3		Total Extractable Pe Analytical	troleum Hydrocarbon methods: SW8015B	s*	Work Ord	er: 1203530			
Lab ID	Client ID	Matrix	Matrix TPH-Motor Oil (C18-C36)		F % SS	Comments			
1203530-001I SW-7		w	ND		98				
	Limit for DF =1;	W	250		μе	/L			
	not detected at or ne reporting limit	S	NA		N	A			

by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

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McC	Campbell An "When Quality	alytical, Inc. Counts"		Toll Free Telep	w Pass Road, Pittsburg, CA 9 hone: (877) 252-9262 / Fax: (9 umpbell.com / E-mail: main@r	925) 252-926
Environmental Technical Services			Client Project ID: LRT SW-7 March 2012		Date Sampled:	03/14/12
1548 Jacob Avenue San Jose, CA 95118		2012			Date Received:	03/15/12
		Client Contact: Helen Mawhinney Client P.O.:		hinney	Date Extracted:	03/20/12
					Date Analyzed:	03/20/12
Analytical Method: SM	2540D	Total Sus	pended Soli	ds*		Work Order:
Lab ID	Client I	D	Matrix	Total Suspended Solids		DF
1203530-001H	SW-7		w		1.80	1

Pittsburg, CA 94565-1701 52-9262 / Fax: (925) 252-9269 E-mail: main@mccampbell com Sampled: 03/14/12 Received: 03/15/12

Work Order: 1203530

Comments

Reporting Limit for DF = 1; ND means not detected at or above the	w	1.0 mg/L	
reporting limit	S	NA	
water samples reported in mg/L.			

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* water samples reported in mg/L.

DF = Dilution Factor

QC SUMMARY REPORT FOR SM5520B/F

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65781

WorkOrder: 1203530

EPA Method: SM5520B/F	Extraction: SM5520B/F	n: SM5520B/F				Spiked Sample ID: N/A					
Analyte	Sample	Spiked		MS-MSD	LCS	Acceptance Criteria (%)					
	mg/L	mg/L		% Rec. % Rec.		% Rec.	MS / MSD	RPD	LCS		
TOG	N/A	20.83	N/A	N/A	N/A	104	N/A	N/A	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65781 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1203530-001A	03/14/12 1:36 AM	03/19/12	03/20/12 3:40 PM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

DHS ELAP Certification 1644

QA/QC Officer

QC SUMMARY REPORT FOR E410.4

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65984

WorkOrder: 1203530

EPA Method: SM5220D	Extraction: SM5220D	n: SM5220D						Spiked Sample ID: N/A			
Analyte	Sample	Spiked mg/L	MS % Rec.	1,11,14,14	MS-MSD % RPD	LCS	Acceptance Criteria (%)				
	mg/L					% Rec.	MS / MSD	RPD	LCS		
COD	N/A	400	N/A	N/A	N/A	102	N/A	N/A	90 - 110		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65984 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1203530-001E	03/14/12 1:36 AM	03/21/12	03/21/12 4:41 PM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample, LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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A. QA/QC Officer

OC SUMMARY REPORT FOR E608

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 65723 WorkOrder: 1203530

EPA Method: E608	Extraction: E608	traction: E608						Spiked Sample ID: N/A			
Analyte	Sample	Spiked µg/L	MS % Rec.	70-1		LCS % Rec.	Acc	eptance (Criteria (%)		
	µg/L						MS / MSD	RPD	LCS		
Aldrin	N/A	0.50	N/A	N/A	N/A	107	N/A	N/A	70 - 130		
g-BHC	N/A	0.50	N/A	N/A	N/A	94.2	N/A	N/A	70 - 130		
p,p-DDT	N/A	1.25	N/A	N/A	N/A	84.7	N/A	N/A	70 - 130		
Dieldrin	N/A	1.25	N/A	N/A	N/A	120	N/A	N/A	70 - 130		
Endrin	N/A	1.25	N/A	N/A	N/A	100	N/A	N/A	70 - 130		
Heptachlor	N/A	0.50	N/A	N/A	N/A	89.3	N/A	N/A	70 - 130		
%SS:	N/A	1.25	N/A	N/A	N/A	112	N/A	N/A	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65723 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203530-001D	03/14/12 1:36 AM	03/15/12	03/23/12 3:53 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

₩. QA/QC Officer

QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65820

WorkOrder: 1203530

EPA Method: E200.7	Extraction: E200.7	Extraction: E200.7 Spiked Sample ID: 1203314-0									
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)				
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS		
Aluminum	ND	1000	96.1	95.7	0.356	90.7	70 - 130	20	85 - 115		
Iron	ND	1000	98	94.9	3.20	100	70 - 130	20	85 - 115		
%SS:	100	750	105	101	3.71	99	70 - 130	30	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65820 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203530-001G	03/14/12 1:36 AM	03/15/12	03/20/12 5:40 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

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QA/QC Officer

QC SUMMARY REPORT FOR E410.4

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65984

WorkOrder: 1203530

EPA Method: SM5220D	Extraction: SM5220D		Spiked Sam	ple ID:	1203478-0020				
Analyte	Sample	Spiked	MS	S MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
COD	20	400	98.8	97.6	1.20	102	80 - 120	20	90 - 110

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65984 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1203530-001E	03/14/12 1:36 AM	03/21/12	03/21/12 4:41 PM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

DHS ELAP Certification 1644

AR QA/QC Officer

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65886

WorkOrder: 1203530

EPA Method: SW8260B	Extraction: SW5030B		19	Spiked Sample ID: 1203530-001F					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acce	eptance C	riteria (%)
	µg/L	μg/L	% Rec.	% Rec. % Rec.		% Rec.	MS / MSD	RPD	LCS
Benzene	ND	10	98.5	95.7	2.91	104	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	102	106	3.53	101	70 - 130	20	70 - 130
Toluene	ND	10	87.5	95.9	9.13	100	70 - 130	20	70 - 130
%SS1;	107	25	110	112	1.95	113	70 - 130	20	70 - 130
%SS2:	110	25	105	105	0	109	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65886 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203530-001F	03/14/12 1:36 AM	03/16/12	03/16/12 4:14 PM				

MS = Matrix Spike, MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels

QA/QC Officer

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65778

WorkOrder: 1203530

EPA Method: SW8015B	Extraction: SW3510C						Spiked Sam	ple ID:	N/A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance C	riteria (%)
	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	122	N/A	N/A	70 - 130
%SS:	N/A	625	N/A	N/A	N/A	88	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65778 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1203530-001I	03/14/12 1:36 AM	03/15/12	03/21/12 5:08 PM					Т

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample, LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

₩- QA/QC Officer

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65811

WorkOrder: 1203530

EPA Method: E200.8	xtraction: E200.8						Spiked Sam	ple ID:	1203314-010A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance (Criteria (%)
,	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Copper	87	50	89.1	91.3	0.830	96	70 - 130	20	70 - 130
Lead	ND	50	101	100	0.239	100	70 - 130	20	70 - 130
Vanadium	1.7	50	98	99	1.02	97.9	70 - 130	20	70 - 130
Zinc	7.2	500	93.8	94.6	0.836	96.1	70 - 130	20	70 - 130
%SS:	104	750	103	102	1.03	102	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65811 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203530-001G	03/14/12 1:36 AM	03/15/12	03/17/12 6:24 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

A QA/QC Officer

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

SM2510B (Specific Conductivity) Test Method:

Matrix: W

WorkOrder: 1203530

Method Name:	SM2510B		Units: µmhos/o		BatchID: 65858	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1203530-001B	35.0 @ 25.0°C	1	35.1 @ 25.0°C	1	0.343	<2

BATCH 65858 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203530-001B	03/14/12 1:36 A	M 03/16/12	03/16/12 1:40 PM				

WorkOrder: 1203530 Test Method: SM2540D (TSS) Matrix: W

Method Name: SN	M2540D		Units: mg/L		BatchID: 65976	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1203530-001H	1.80	1	2.00	2	10.5	<15

BATCH 65976 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203530-001H	03/14/12 1:36 AM	M 03/20/12	03/20/12 2:15 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference, RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

QA/QC Officer

QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65946

WorkOrder: 1203530

EPA Method: E415.3	Extraction: E415.3						Spiked Sam	ple ID:	1203539-001B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
7.0.0,12	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TOC	1.7	50	112	113	0.431	114	70 - 130	20	80 - 120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 65946 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1203530-001C	03/14/12 1:36 AM	03/21/12	03/21/12 1:03 AM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

Other Sampling Events

May 9, 2012

Analytical Report

Environmental Technical Services	Client Project ID: #120509 EPA LEVN; LRT 120509 EPA	Date Sampled: 05/09/12
1548 Jacob Avenue	120309 EFA	Date Received: 05/09/12
1340 Jacob Avenue	Client Contact: Helen Mawhinney	Date Reported: 05/14/12
San Jose, CA 95118	Client P.O.:	Date Completed: 05/10/12

WorkOrder: 1205285

May 14, 2012

Dear Helen:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: #120509 EPA LEVN; LRT 120509 EPA,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

	McCAM Website: www. Telephone: (8	1534 W PITTSB mccampbe (77) 252-9	ILLOW PA URG, CA 9 ell.com Er 262	SS RO 4565-17	701	mee	amp	20 bells	Som		3.5	5						OL	EDI	T	M	E PD Che	F	RUS	H Ex	24 ccel	HR	1 1	18 I WT	ite O	72 H In (D	_
Report To: HE				Bill To									I						Λ	nal	ysis	Rec	jues	t						Oth	her	Comment
	8 JACOB AV								(A)		25.00			38		NF)					saecs											**Indicate
Tele: (831) 23	JOSE,			E-Mai		awi	unne	eyets	:@a	oi.c	om	-	\exists	8015) / MTBE		ESB					ouge						_		М	916		samples a potentially
Project #: 1205		V		rojec		ne:	#LR	T 12	050	9 E	PA		٦	1(5)		55.20			=) (u		-				6020	(020)	Ш	alla		dangerous
Project Locatio	on: LEVIN R	ICHMON	D TERM	_										8021+		se (1664)	ons (418.1	CHVOC	602 / 802	icides)	V; Aroclo	lesi	lerbicides	3)	(s)	s / PNAs)	/ 0109 / 8	8 / 6010 / 6	(020)	nample for DISSOLVED metals analysis		handle:
Sampler Signal	ture: ZUS		-	44	_	_						TOD		(6027		Great	carb	/ 802	(EPA	1 Pest	ONE	esticid	113	CVDC	(SVO	(PAH	/200	/ 2007	9700	OEVI		
CAMBIEID	LOCATION/	SAMI	PLING	siers	tainers	H	MA	TRE	X			RVE	D	146	4 (8015)	um Oil &	um Mydr	0108 / 106	X ONLY	5 / 8081 (C	82 PCB's	AL ONP P	St (Acidi	524 / 8260	125 / 8270	M / 8310	als (200.7	ds (200.7	200.8 / 60	for DISS		
SAMPLE ID	Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Other	ICE	HCL	HNO,	Other	BTEX & TPH	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Mydrocarbons (418.1)	EPA 502.2 / 661 / 8010 / 8021 (BVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONEY; Aradors / Congener	EPA 507 / 8141 (NP Pesticides)	ICPA \$157 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	UPA \$25.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200,7 / 200.8 / 6010 / 6020)	Filter sample		
SW-6		5/9/12	10:01	2	G	X				X			+		7					X	Х								П			1.4
SW-7		5/9/12	10:49	2	G	X			T	Х										Х	Х											
													+																			
	_	-	-				+	+	H		Н	+	+																-	-	+	
			-										+	+	+																+	
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** MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely, Sampled & Relinquished By; Time Received by: Dates COMMENTS: ICE/t°_ Helen Mawhinney GOOD CONDITION 49/9/10 HEAD SPACE ABSENT Received/By: Relinquished By: Date; Time: DECHLORINATED IN LAB. APPROPRIATE CONTAINERS PRESERVED IN LAB Relinquished By: Date: Time: Received By: VOAS O&G METALS OTHER PRESERVATION pH<2

Comments **Indicate here if these samples are potentially dangerous to handle:

McCampbell Analytical, Inc.

12

1534 Willow Pass Rd

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

	g, CA 94565-1701 52-9262					Work	Order	: 12052	285	C	lientC	ode: E	TS				
		□WaterTrax	WriteOn	□EDF	E]Excel		∏Fax	E	a Email		Hard	Сору	Thire	dParty	□J-f	flag
Report to: Helen Mawh	ninney	Email: H	lMawhinneyE	TS@aol.com; jan	nes.jim			elen Mav					Requ	ested TA	AT:	5	days
Environmen 1548 Jacob San Jose, C 510-385-4308	A 95118	cc: PO: ProjectNo: #	120509 EPA	LEVN; LRT 1205	09 EP.	A	15	vironme 48 Jaco n Jose,	b Aven	ue	Servic	es		Receiv Printed		05/09/ 05/09/	
,								Is:	2.0	-	_	(See leg	1			T:	F2
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1205285-001	SW-6	100	Water	5/9/2012 10:01		Α		Ĭ				ľ				3	55 56
1205285-002	SW-7		Water	5/9/2012 10:49		Α		, C1	53 Y)	57.1 (0)
	PCB_W 2	1. 1: S		3				4	-			45 51		5			
6	7			8			1.	9						10			

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

Prepared by: Melissa Valles

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	Environment	al Technical Services			Date a	and Time Received:	5/9/2012 4:	34:31 PM
Project Name:	#120509 EP	A LEVN; LRT 120509 EPA			LogIn	Reviewed by:		Melissa Valles
WorkOrder N°:	1205285	Matrix: Water			Carrie	r: Rob Pringle (M	IAI Courier)	
		Cha	ain of Cu	ıstody (C	COC) Informa	tion		
Chain of custody	present?		Yes		No 🗆			
Chain of custody	signed when r	elinquished and received?	Yes		No 🗆			
Chain of custody	agrees with sa	imple labels?	Yes	•	No 🗆			
Sample IDs note	d by Client on (COC?	Yes		No 🗆			
Date and Time o	f collection note	ed by Client on COC?	Yes	V	No 🗆			
Sampler's name	noted on COC	?	Yes	•	No 🗆			
			Sample	Receipt	t Information			
Custody seals in	tact on shipping	g container/cooler?	Yes		No 🗆		NA 🗹	
Shipping contain	er/cooler in god	od condition?	Yes	S	No 🗆			
Samples in prope	er containers/b	ottles?	Yes	W	No 🗆			
Sample containe	rs intact?		Yes		No 🗌			
Sufficient sample	volume for inc	licated test?	Yes		No 🗆			
		Sample Pre	servatio	n and Ho	old Time (HT)	Information		
All samples rece	ived within hold	ling time?	Yes		No 🗆			
Container/Temp	Blank tempera	ture	Coole	er Temp:	4.1°C		NA 🔲	
Water - VOA vial	s have zero he	adspace / no bubbles?	Yes		No 🗆	No VOA vials submi	itted 🗹	
Sample labels ch	necked for corre	ect preservation?	Yes	V	No 🗌			
Metal - pH accep	table upon rec	eipt (pH<2)?	Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?		Yes	•	No 🗌			
		(Ice Ty	pe: WE	TICE)			
* NOTE: If the "N	lo" box is chec	ked, see comments below.						
				===	====			

		Date Sampled: 05/09/12		
1548 Jacob Avenue	LRT 120509 EPA	Date Received:	05/09/12	
	Client Contact: Helen Mawhinney	Date Extracted:	05/09/12	
San Jose, CA 95118	Client P.O.:	Date Analyzed:	05/10/12	

Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*

Extraction Method: SW3510C Analytical Method: SW8081A/8082 Work Order: 1205285 Lab ID 1205285-001A 1205285-002A Reporting Limit for Client ID SW-6 SW-7 DF = 1Matrix W W W S 5 DF 1 Compound Concentration µg/kg μg/L 0.005 ND ND<0.025 NA a-BHC ND ND<0.050 NA 0.01 b-BHC ND ND<0.025 NA 0.005 d-BHC ND ND<0.025 NA 0.005 g-BHC ND NA 0.02 ND<0.10 Chlordane (Technical) ND ND<0.50 NA 0.1 a-Chlordane ND ND<0.25 NA 0.05 g-Chlordane ND ND<0.25 NA 0.05 0.021 p,p-DDD 0.066 NA 0.01 p,p-DDE 0.037 0.11 0.01 NA p,p-DDT 0.044 0.091 NA 0.01 0.013 ND<0.050 Dieldrin NA 0.01 ND ND<0.10 Endosulfan I NA 0.02 Endosulfan II ND ND<0.10 NA 0.02 Endosulfan sulfate ND ND<0.25 NA 0.05 ND Endrin ND<0.050 NA 0.01 Endrin aldehyde ND ND<0.25 NA 0.05 Endrin ketone ND<0.25 0.05 ND ND<0.050 0.01 Heptachlor Heptachlor epoxide ND ND<0.050 0.01 ND ND<2.5 Hexachlorobenzene Hexachlorocyclopentadiene ND ND<5.0 NA 1.0 Methoxychlor ND ND<0.50 NA 0.1 Toxaphene ND ND<2.5 NA 0.5 Aroclor1016 ND ND<2.5 NA 0.5 Aroclor1221 ND ND<2.5 NA 0.5 Aroclor1232 ND ND<2.5 NA 0.5 Aroclor1242 ND ND<2.5 NA 0.5 Aroclor1248 ND ND<2.5 NA 0.5 Aroclor1254 ND ND<2.5 NA 0.5 Aroclor1260 ND ND<2.5 NA 0.5 PCBs, total ND ND<2.5 NA 0.5

Surrogate Recoveries (%)							
%SS:	98	95					
Comments	b1	b1					
* water complex in ug/L soil/slu	das/solid samples in ma/lsa vvin	a aammalaa in wa/xwi	na filtan sammlas in ua/filtan nu	odust/oil/non aguagus liquid samples and			

water samples in μ g/L, soil/sludge/solid samples in μ g/kg, wipe samples in μ g/wipe, filter samples in μ g/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment



QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 67417 WorkOrder: 1205285

EPA Method: SW8081A/8082 Extraction: SW3510C Spiked Sample ID: N/A							N/A		
Analyte	Sample	Spiked	MS N	MSD MS-	MS-MSD	LCS	Acceptance Criteria (%)		
7 thaiye	μg/L		% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Aldrin	N/A	0.50	N/A	N/A	N/A	73.1	N/A	N/A	70 - 130
g-BHC	N/A	0.50	N/A	N/A	N/A	86.7	N/A	N/A	70 - 130
p,p-DDT	N/A	1.25	N/A	N/A	N/A	72.1	N/A	N/A	70 - 130
Dieldrin	N/A	1.25	N/A	N/A	N/A	94.6	N/A	N/A	70 - 130
Endrin	N/A	1.25	N/A	N/A	N/A	94.6	N/A	N/A	70 - 130
Heptachlor	N/A	0.50	N/A	N/A	N/A	89.5	N/A	N/A	70 - 130
%SS:	N/A	1.25	N/A	N/A	N/A	95	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 67417 SUMMARY

į.	Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
	1205285-001A	05/09/12 10:01 AM	05/09/12	05/10/12 6:29 AM	1205285-002A	05/09/12 10:49 AM	05/09/12	05/10/12 7:26 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

____QA/QC Officer